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ABSTRACT

This statistical handbook describes the growth in numbers of doctorates granted in various fields and corresponding growth in numbers of colleges and universities; delineates patterns of doctoral education in the US and shows changes that occur in transition from academic to professional work; describes US doctorate recipients of foreign origin and women doctorate recipients; and provides extensive institutional data in the appendices. The source of the data is the Doctorate Records File, a repository of information from the annual Survey of Earned Doctorates distributed to graduating PhDs. The primary purpose of the report is to present useful data describing recent trends in US doctoral education. Little interpretive comment is included but "care has been taken to make the tables and figures as clear and self-explanatory as possible." (JS)

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DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
OFFICE OF EDUCATION

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**DOCTORATE
RECIPIENTS
FROM
UNITED
STATES
UNIVERSITIES
1958-1966**

A STATISTICAL REPORT

Prepared in the Research Division of the
Office of Scientific Personnel
under the sponsorship of the
National Science Foundation

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FOREWORD

How many earned doctorates are awarded annually in the United States in each discipline? How does the time lapse between the baccalaureate and the doctorate vary by field and by mode of support? Can graduates of four-year colleges compete as doctoral candidates on equal terms with those who received their baccalaureates from doctorate-granting institutions? In what order can universities be ranked as producers of doctorates? Where do recent recipients of the doctorate go for their first postdoctoral employment? Is postdoctoral education—that vigorous infant of the educational world—claiming an ever greater share of doctorate recipients? What percentage of foreign nationals receiving the doctorate in the United States return to their countries of origin? To what extent are the social sciences and the humanities attracting highly talented young people at the doctoral level to the solution of pressing social problems and the elevation of the quality of our national life? Questions such as these abound in every discussion of the strengthening of graduate education and of the contributions that graduate education makes to the national well-being. They require ever more precise answers, the approximations and folklore of the past no longer sufficing as a basis for national, regional, and institutional planning.

This book, the sixth in a series of reports published by the Office of Scientific Personnel of the National Research Council, addresses itself to these and many other questions related to doctoral education. No efforts have been spared to make the graphical presentation of data as complete and helpful to the reader as possible. We hope that the busy policy-maker will find here in good graphs and well-organized diagrams succinct presentation of relations and perhaps some new insights into old problems.

The publication of Doctorate Recipients and the development of the Doctorate Records File are among the many activities conducted by the Office of Scientific Personnel of the National Research Council in its concern for the strengthening of higher education and the development of better understanding of the educational process. Included among these activities currently are a study of postdoctoral education in the United States, a study of training programs in the general medical sciences, a study of career patterns of doctorate recipients in the general medical sciences, a study of career patterns of doctorate recipients in the sciences and engineering, and an extensive program of fellowships and research associateships. Inquiries about these projects, suggestions and criticisms of the present volume, and communications concerning the availability of additional information about doctorate recipients are invited.

Dr. Fred D. Boercker, Assistant Director of Research within the Office of Scientific Personnel, working under the direction of Dr. Lindsey R. Harmon, Director of Research, has been responsible for the production of this volume. To Dr. Boercker and his assistant, Miss Clarebeth Maguire, must go most of the credit for making "Book Six" in the Doctorate Production Series a more complete and, we hope, more interesting and more useful book than its pioneering predecessors.

The National Science Foundation provided funds for the preparation of this book and, in cooperation with the U.S. Office of Education, supports the work of maintaining and extending the important Doctorate Records File. The continuing assistance of these agencies is gratefully acknowledged.

William C. Kelly
Director
Office of Scientific Personnel

PREFACE

This is a statistical handbook about doctoral education in the United States during the past nine years. More specifically, the book describes the growth in numbers of doctorates granted in various fields and the corresponding growth in numbers of colleges and universities; it delineates some patterns of doctoral education in the United States and shows changes that occur in transition from academic to professional work; it describes two special groups—the United States doctorate recipients of foreign origin and women doctorate recipients; and finally, the book provides extensive institutional data in its appendixes.

The source of the data is the Doctorate Records File, a repository of information from the Survey of Earned Doctorates. The Survey is conducted annually by the Office of Scientific Personnel (OSP) of the National Research Council and gathers information by means of a questionnaire form. The form is distributed with the cooperation of the Graduate Deans and filled out by the graduates just as they complete all requirements for their doctoral degrees. Research doctorates in all fields are recorded, but professional degrees such as the MD, DDS, and DVM are not included. The File goes back to 1920 and includes information about almost a quarter of a million persons.

The time period covered in this report is fiscal year 1958 through fiscal year 1966. The previous volume in the series, Doctorate Production in United States Universities, 1920-1962 (NAS-NRC Publication 1142), presented a long-range historical review of doctoral education in the United States. The present volume provides more detailed information for the last nine years and serves as a complement to the preceding book. Frequent references will be made to Publication 1142.

The primary purpose of this report is to present useful data describing recent trends in doctoral education in the United States. Very little interpretative comment is included. A great deal of care has been taken to make the tables and figures as clear and self-explanatory as possible. Most of the text is intended to define any unusual terms used in tables, point out uniformities or anomalies in patterns, warn of data limitations if such exist, and generally help the reader to understand the information presented. It is especially important for the reader to realize that the data refer only to those persons who have completed doctoral programs. The statistics may not be generalized to describe all graduate education in the United States.

It is hoped that professional societies and educational researchers will use these data as bases for interpretation as this may be required. More detailed analysis of the Doctorate Records File data than is presented here is possible, and OSP invites inquiries from qualified professional, educational, or governmental agencies concerning such analysis.

The planning, compilation of information, and the writing and publication of this book have involved many persons, and we wish to acknowledge the assistance of some who have been especially helpful. Mr. Robert W. Cain, Dr. Abbott L. Ferriss, Dr. Milton Levine, Mr. Justin C. Lewis, Mr. Thomas J. Mills of

the National Science Foundation, and Dr. John L. Chase from the United States Office of Education provided data and helpful comments. Dr. Bryce Crawford, Jr., Dean of the Graduate School, University of Minnesota, and Chairman of the OSP Advisory Committee read the manuscript and contributed good suggestions. Within OSP, Dr. M. H. Trytten, Dr. William C. Kelly, and Dr. Joseph C. Boyce have encouraged these studies and have reviewed them frequently. Dr. Lindsey R. Harmon, Director of Research, supervised the project. Dr. Stanley F. Bolin of the Research Division provided valuable advice at many stages of the book's preparation. Mrs. Doris Rogowski gave helpful comments and suggestions; and Mr. Herbert Soldz, Mr. Robert Farr, and Mrs. Aida Perez looked after the data processing.

We wish also to thank each graduate dean and each recipient of the doctorate who cooperated with us by providing data. Their generous response to our appeals has been most encouraging. We trust that they will feel repaid to some extent by the knowledge that they have contributed to the development of a unique national resource of information, one that has made possible not only this report but also many other reports and studies.

Fred D. Boercker
General Editor

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**DOCTORATE
RECIPIENTS
FROM
UNITED
STATES
UNIVERSITIES
1958-1966**

CHAPTER I TIME TRENDS IN DOCTORATES GRANTED

- TOTAL DOCTORATES GRANTED AND INFORMATION COLLECTED ABOUT THE RECIPIENTS
- DOCTORATES GRANTED BY FIELD
- DOCTORATES GRANTED BY INSTITUTION
- DOCTORATES GRANTED BY STATE

TOTAL DOCTORATES GRANTED AND INFOR- MATION COLLECTED ABOUT THE RECIPIENTS

There has been an increasingly rapid growth in the number of doctorates granted by United States universities during the past half century. The universities granted 560 research doctorates in 1920. This number grew to 3,245 in 1940; totaled 9,734 in 1960; and reached 17,865 in 1966.

Accompanying the growth in the number of persons receiving doctorates has been an increasing need for more information about this pool of highly trained manpower. Universities have become more concerned with the process of graduate education leading to the doctorate; baccalaureate institutions have had to plan for a greater percentage of their graduates to continue through graduate work; and society in general has become more aware of the critical role these persons play in determining the standard and quality of living for the nation. As a result, more information about the doctorate recipients was needed, and the Office of Scientific Personnel (OSP) broadened the scope of its Survey of Earned Doctorates in the 1957 - 1958 academic year to collect the information.

Figure 1 shows the growth in numbers of doctorate recipients and in the information collected from them since 1920. Harmon and Soldz¹ presented an extensive analysis of the growth curve in Figure 1 for the years 1920 - 1962. They showed that the average long-term growth rate was 7 percent per year, but they also pointed out the rather large year-by-year fluctuations from the average.

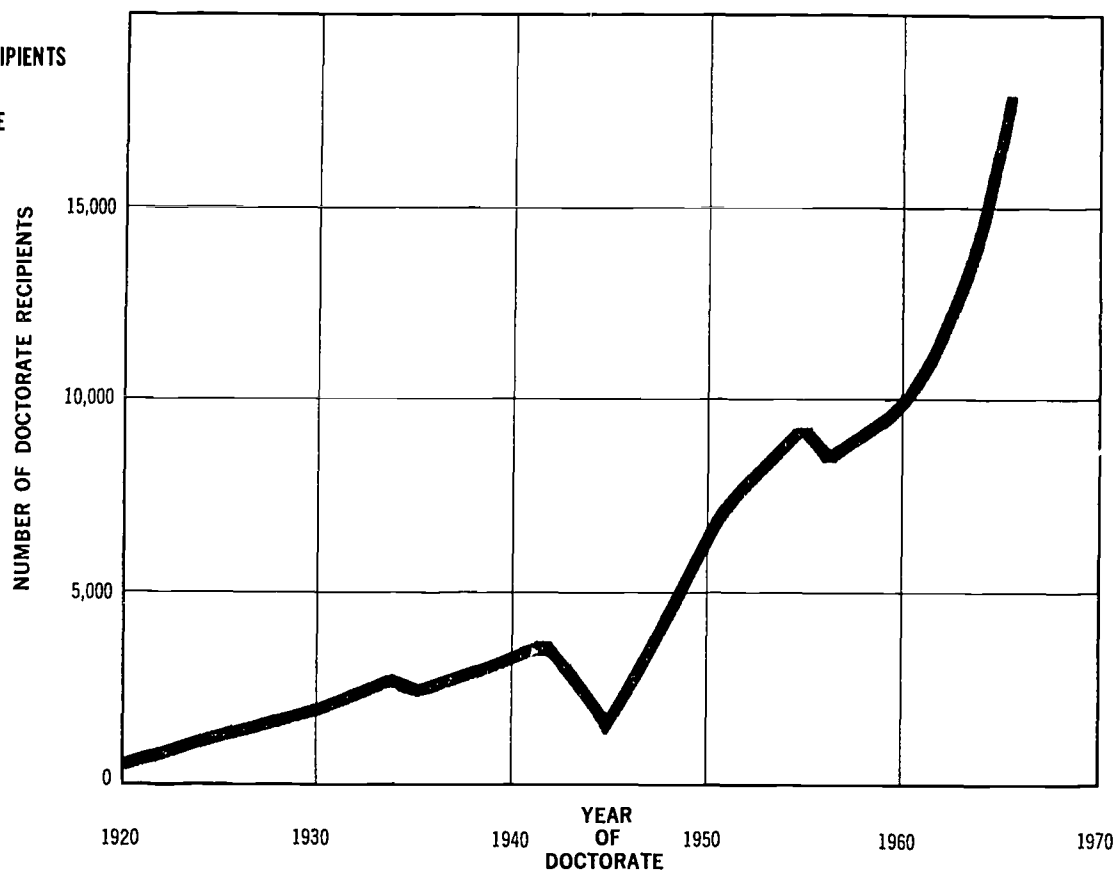
This book concentrates primarily on the period from fiscal year (FY) 1958 through fiscal year 1966.² The average rate of growth in numbers of doctorate recipients for this period was 9.3 percent per year. Since there were 17,865 doctorate recipients in FY 1966, one may project the number to FY 1970 as follows:

At 9 percent per year growth rate, there would be 25,000 doctorate recipients by FY 1970.

1. NAS-NRC, Doctorate Production in United States Universities, 1920-1962, Publ. 1142, Washington, D.C. (1963), pp. 1-5.

2. A fiscal year is defined here as the interval from July 1 through the following June 30. It approximates an academic year. For example, FY 1958 is approximately the same as academic year 1957 - 1958.

FIGURE 1
NUMBER OF DOCTORATE RECIPIENTS
FROM U.S. UNIVERSITIES
AND INFORMATION AVAILABLE
ABOUT EACH RECIPIENT,
1920-1966.



INFORMATION AVAILABLE	NAME				
	SEX				
	BACCALAUREATE INSTITUTION				
	YEAR				
	FIELD				
	MASTER'S INSTITUTION				
	YEAR				
	FIELD				
	DOCTORATE INSTITUTION				
	YEAR				
	FIELD				
	THESIS				
	ADVISER				
	BIRTH DATE				
	BIRTH PLACE				
	CITIZENSHIP				
	MARITAL STATUS				
	DEPENDENTS				
	PARENTAL EDUCATION				
	FATHER'S OCCUPATION				
	HIGH-SCHOOL LOCATION				
	HIGH-SCHOOL TYPE				
	HIGH-SCHOOL CLASS SIZE				
	HIGH-SCHOOL GRAD YEAR				
	PREDOCT EMPLOYMENT				
	YEARS OF PROFESSIONAL WORK				
	POSTDOCT EMPLOYMENT				
	POSTDOCT FELLOWS				
	POSTDOCT WORK ACTIVITY				
	POSTDOCT EMPLOYER LOCATION				
	SUPPORT IN GRAD SCHOOL				

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

At 10 percent per year growth rate, there would be 26,000 doctorate recipients by FY 1970.

In the period 1920 - 1966, more than 241,000 doctorates were granted in United States universities, and almost three fourths of these (72 percent) were granted after 1950. By FY 1970, the projected number of doctorate recipients would be 333,000. No attempt is made in this publication to compare the supply with projected demand.

OSP systematically collects information about doctorate recipients and compiles the Doctorate Records File upon which the facts presented in this book are based. The survey is conducted annually, with the cooperation of the Graduate Deans and with financial support from the National Science Foundation and the U.S. Office of Education (USOE), by means of a questionnaire distributed to all graduate schools. (See Appendix H for a copy of the survey form.) The forms are filled out by the students after they have completed all requirements for the doctorate and are returned to OSP where they are checked against the graduation list from each institution. Rosters are compiled and mailed to each graduate institution, to be rechecked for accuracy. The accumulated records for all these individuals are referred to as the Doctorate Records File, which is a virtually complete listing of all research doctorate recipients since 1920. However, not all respondents answer every question on the questionnaire, so the response rate on a given item will not be 100 percent. The typical response rate is about 95 - 98 percent.

Figure 1 indicates that the information collected from the doctorate recipients before FY 1958 was meagre, but since that time a very substantial amount of data has been collected each year. Agencies other than OSP collect data about degrees granted, especially USOE, but the Doctorate Records File includes the academic history of every individual receiving the doctorate. The File therefore permits studies to be made of the path and progress of each individual through higher education and into his first postdoctoral employment. Data presented in this book may be compared with USOE counts of doctoral degrees granted if the following precautions are kept in mind:

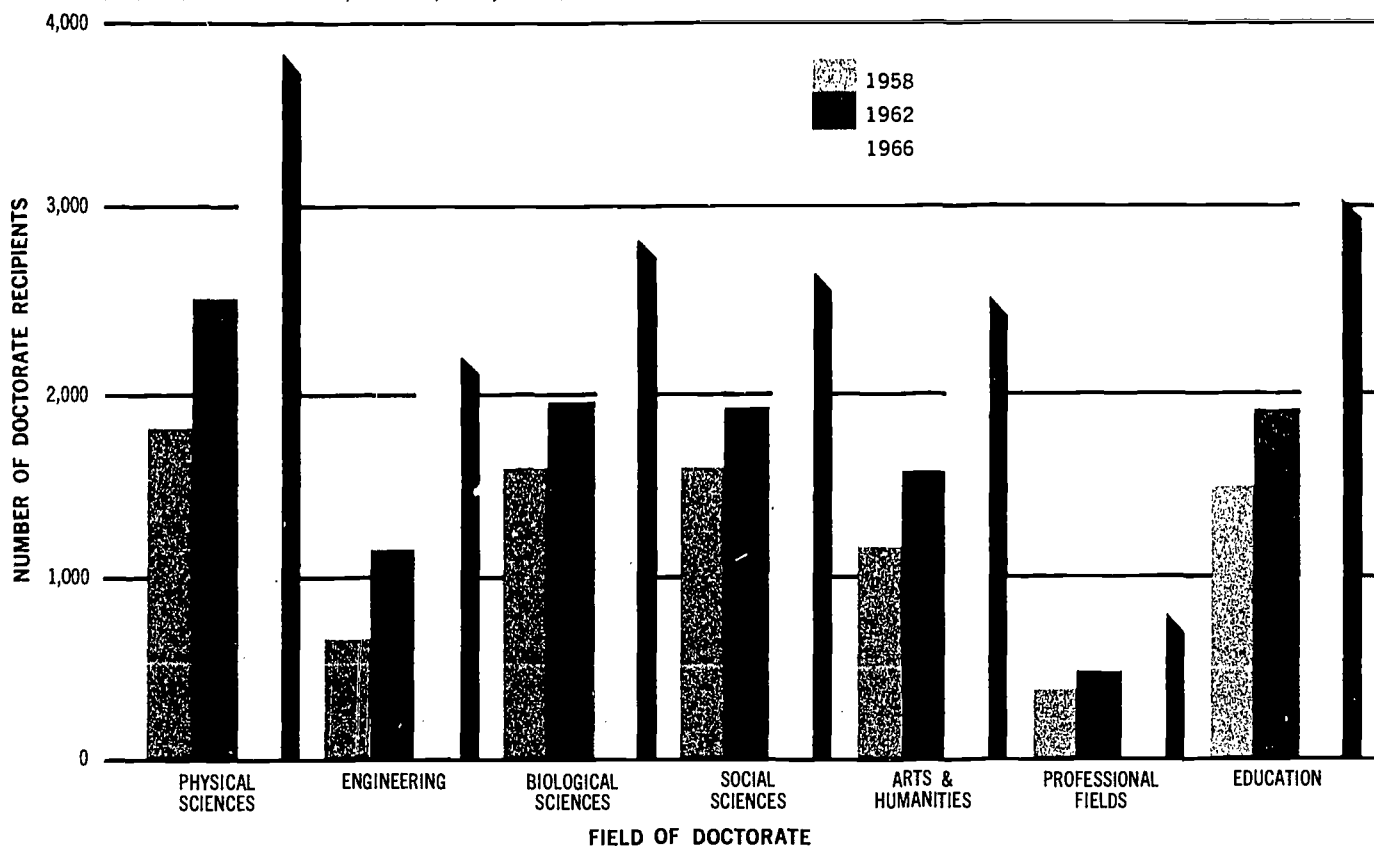
1. OSP data are counts of individuals, and USOE data are counts of degrees. A person receiving two research doctorates would be counted once by OSP (the first time) and twice by USOE.
2. OSP data include only research-level doctorates. Performance doctorates not requiring a research dissertation are not included. (Professional degrees such as MD, DDS, and DVM are excluded by both OSP and USOE in counts of third-level research degrees.)
3. Certain groupings of fields (such as history, economics, etc.) into larger aggregates (such as Social Sciences) differ between OSP and USOE.

DOCTORATES GRANTED BY FIELD

Figure 2 shows the relative sizes and growth rates of seven major fields between FY 1958 and FY 1966. During this period the number of persons receiving doctorates each year increased from 8,770 to 17,865, corresponding to an average growth rate of 9.3 percent per year. The summary fields (containing fields and subfields as described in Table 1) display quite a variety of average annual growth rates:

Summary Field	% Per Year Increase
Engineering	17.7
Professional Fields	10.9
Physical Sciences	9.7
Arts and Humanities	9.5
Education	9.4
Biological Sciences	7.5
Social Sciences	6.7

FIGURE 2
DOCTORATE RECIPIENTS IN 7 FIELDS, FY 1958, 1962, AND 1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Engineering experienced spectacular growth during the nine-year period, almost quadrupling its annual doctoral production. The professional fields, especially business administration, also grew rapidly. Within the sciences, mathematics displayed above-average growth. Within the arts, modern foreign languages grew rapidly, but the fine arts and music were slow-growing. The biological and social sciences grew relatively slowly, and this was particularly true of psychology, the largest discipline in the social science group.

Table 1 provides a detailed analysis of trends in numbers of persons receiving doctorates in each of 188 subfields between FY 1958 and FY 1966. This is the only table in the book giving such fine-field analysis, since the detail would make most tables too lengthy and complex. Consolidation of fields is necessary, and Table 1 indicates the groupings of subfields into major fields.³

Doctorate recipients show many similarities in terms of such characteristics as sex, citizenship, marital status, and age at receipt of doctorate. The majority in all fields are men, United States citizens, married, and about 25 - 35 years old upon completion of their formal education. However, field differences do exist, and Table 2 (p. 10) compares these individual characteristics for persons in the various fields.

The physical scientists and engineers are almost all men, but one fifth of the group in the arts and humanities are women; one third of the research doctors in modern foreign languages are women. (Chapter V provides data describing women doctorate recipients.)

3. Most of the tables in this book are arranged by field in 38 parts: 25 fields (excluding education); 6 display subfields (2 each for physics, chemistry, and engineering); 6 major fields (including education); 1 grand total.

TABLE 1

Doctorates Granted in 188 Subfields, Fiscal Years (FY) 1958 - 1966

Subfield of Doctorate	Fiscal Year of Doctorate								
	1958	1959	1960	1961	1962	1963	1964	1965	1966
TOTAL ALL FIELDS	8,770	9,212	9,734	10,411	11,507	12,720	14,324	16,302	17,865
PHYSICAL SCIENCES AND ENG									
MATHEMATICS									
Algebra	24	29	35	25	60	78	72	97	125
Analysis	72	76	71	92	101	114	178	164	181
Geometry	5	10	12	13	21	14	26	23	22
Logic	4	7	2	7	13	16	15	26	23
Number Theory	4	10	11	13	19	20	20	17	20
Probability, Math Statist	35	42	64	67	66	70	101	103	121
Topology	15	24	26	18	37	46	57	91	87
Topol Algebraic Structures	22	21	17	13	11	20	14	19	15
Computing Theory and Practice	—	—	4	11	6	14	14	17	18
Applied Mathematics	34	44	31	53	42	64	69	91	112
Mathematics, General	18	16	13	13	10	12	13	18	20
Mathematics, Other	5	10	5	7	2	16	11	18	22
PHYSICS AND ASTRONOMY									
Astronomy	20	20	11	16	28	34	45	64	66
Atomic and Mol Physics	57	66	49	68	81	90	114	110	111
Electromagnetism	9	6	7	20	20	23	36	32	39
Mechanics	2	3	1	5	5	7	5	8	5
Acoustics	17	9	11	8	7	14	7	7	10
Fluids	—	1	4	19	30	22	14	32	28
Optics	1	8	8	7	7	7	8	13	9
Thermal Physics	—	—	3	2	4	12	10	21	19
Elementary Particles	39	50	51	68	114	153	147	180	161
Nuclear Physics	11	2	2	2	—	—	—	—	—
Nuclear Structure	97	113	115	113	151	155	147	158	154
Solid State	107	110	136	123	161	175	211	299	295
Theoretical Physics	81	83	89	114	55	3	—	—	—
Physics, General	24	15	8	7	25	46	54	41	56
Physics, Other	31	29	36	25	22	77	66	81	96
CHEMISTRY									
Analytical	77	61	65	71	92	84	109	88	120
Inorganic	68	61	96	100	98	118	148	153	165
Organic	390	488	468	506	477	516	528	611	641
Nuclear	—	—	13	31	24	36	31	25	27
Physical	272	298	317	310	343	366	376	424	425
Theoretical	—	—	11	20	19	25	27	27	27
Agricultural and Food	33	36	32	42	26	40	48	36	51
Pharmaceutical	37	34	34	37	38	50	44	48	60
Chemistry, General	64	38	30	11	11	38	20	12	45
Chemistry, Other	23	38	11	22	9	15	20	15	19
EARTH SCIENCES									
Mineral, Petrol, Geochem	44	82	68	78	68	94	68	99	97
Stratigr, Sedimentation	53	63	75	61	42	57	61	56	59
Paleontology	14	14	21	16	30	39	26	41	45
Structural Geology	6	10	8	7	17	17	15	20	28

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate								
	1958	1959	1960	1961	1962	1963	1964	1965	1966
Solid Earth Geophysics	18	12	26	35	19	20	25	25	31
Geomorphol, Glacial Geology	10	11	10	6	12	9	10	18	8
Hydrology	—	1	1	4	2	3	4	4	3
Oceanography	14	8	6	8	14	15	18	29	39
Meteorology	14	12	23	14	17	21	32	34	34
Appl Geol, Geol Eng, Econ Geol	16	17	15	17	22	26	32	32	28
Earth Sciences, General	—	1	—	—	6	9	12	7	13
Earth Sciences, Other	1	1	—	—	—	12	9	9	11
ENGINEERING									
Aeronautical and Astronautical	32	24	23	40	52	66	70	82	108
Agricultural	13	18	23	17	14	19	28	30	39
Civil	52	53	62	91	125	127	193	210	236
Chemical	133	148	180	187	240	243	276	369	362
Ceramic	12	11	14	16	23	19	24	31	37
Electrical	114	140	160	209	232	288	345	395	469
Electronics	32	31	41	40	64	89	97	100	96
Industrial	12	12	14	21	21	23	28	56	45
Engineering Mechanics	46	54	46	72	103	94	131	177	185
Engineering Physics	13	26	26	26	41	60	79	96	131
Mechanical	72	80	98	100	148	154	183	249	271
Metallurgy and Phys Met Eng	75	77	77	77	103	116	114	172	172
Sanitary	8	10	12	24	21	24	34	33	56
Textile	—	1	—	—	—	—	—	—	—
Engineering, General	4	1	1	3	3	5	6	7	7
Engineering, Other	11	13	15	17	25	30	54	61	69
BIOLOGICAL SCIENCES									
BIOCHEMISTRY	237	217	259	272	286	300	371	391	446
BIOPHYSICS	21	23	23	25	33	36	40	54	83
BIOMETRICS, BIOSTATISTICS	3	3	11	7	10	14	22	24	20
PHYSIOLOGY, ANIMAL	—	—	2	2	77	136	182	194	182
PHYSIOLOGY	131	137	122	131	54	—	—	—	—
PHYSIOLOGY, PLANT	1	2	5	—	29	71	54	76	73
ANATOMY	30	36	31	45	49	51	56	88	66
CYTOLOGY	—	1	—	—	18	21	27	31	29
ENTOMOLOGY	93	72	95	95	102	86	105	134	128
MICROBIOLOGY	203	168	184	176	199	210	194	273	286
GENETICS	71	75	74	73	81	97	98	102	113
EMBRYOLOGY	—	—	2	1	8	15	22	20	37
ECOLOGY	29	20	30	32	39	45	38	34	34
HYDROBIOLOGY	7	6	5	3	3	16	7	15	12
BOTANY	90	92	118	116	98	108	133	144	160
ZOOLOGY	140	135	175	170	187	186	204	226	267
BIOL SCIENCES, GENERAL	20	22	13	5	10	2	6	3	15

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate								
	1958	1959	1960	1961	1962	1963	1964	1965	1966
BIOL SCIENCES, OTHER	15	12	11	18	16	17	25	16	30
AGRICULTURE AND FORESTRY									
Agronomy	100	97	136	143	141	137	155	168	169
Animal Husbandry	73	50	105	121	113	110	123	144	143
Fish and Wildlife	21	22	17	14	22	21	24	13	21
Forestry	18	32	25	30	36	27	46	44	46
Horticulture	38	48	47	46	55	44	57	75	71
Phytopathology	67	74	70	72	83	92	72	96	87
Agriculture, General	9	1	2	1	1	2	3	4	3
Agriculture, Other	11	18	11	11	19	32	37	32	32
HEALTH SCIENCES									
Medicine and Surgery	18	9	5	14	7	12	18	11	15
Pharmacy	30	35	20	22	37	32	31	41	44
Public Health	12	23	23	28	22	22	39	35	56
Veterinary Medicine	11	14	9	18	22	22	26	32	38
Hospital Administration	2	—	3	4	2	2	3	2	3
Optometry and Ophthalmology	—	1	2	3	1	1	1	5	2
Dentistry	3	3	—	4	1	—	1	1	—
Pharmacology	48	40	53	49	74	70	89	97	104
Pathology	14	14	11	22	23	21	31	36	37
Nutrition	50	66	24	1	1	2	—	—	—
Health Sciences, General	—	—	—	—	1	3	4	2	2
Health Sciences, Other	6	14	7	8	16	13	19	16	15
SOCIAL SCIENCES									
ANTHROPOLOGY	53	58	69	55	82	82	83	82	98
ARCHEOLOGY	10	9	8	5	6	9	10	10	11
SOCIOLOGY	158	180	162	167	184	211	201	239	258
ECONOMICS	322	321	341	405	403	423	511	538	591
ECONOMETRICS	9	6	11	8	15	27	15	23	25
POLITICAL SCIENCE, PUBLIC ADMIN	171	191	185	218	223	232	263	326	327
INTERNATIONAL RELATIONS	40	39	53	36	55	58	73	65	74
GEOGRAPHY	60	48	64	50	56	58	65	71	55
AREA STUDIES	1	2	—	1	2	10	5	3	1
SOCIAL WORK	19	27	20	38	30	41	39	38	56
SOCIAL SCIENCES, GENERAL	2	4	7	3	—	12	3	4	4
SOCIAL SCIENCES, OTHER	8	8	4	15	15	33	23	23	27
PSYCHOLOGY									
Clinical	246	283	241	299	293	303	398	335	368
Counseling and Guidance	45	46	67	67	60	48	47	47	57
Develop and Gerontol	31	20	22	20	26	20	19	28	40
Educational	76	70	60	75	56	35	38	36	47
School Psychology	—	—	7	15	9	17	22	16	10
Exper, Comp, and Physiol	147	176	196	171	77	3	3	4	1

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate								
	1958	1959	1960	1961	1962	1963	1964	1965	1966
Experimental	1	—	—	4	109	197	221	215	267
Comparative	—	—	—	—	15	19	11	11	9
Physiological	—	—	—	1	25	50	37	43	75
Human Engineering	5	7	5	4	4	1	—	—	3
Industrial and Personnel	24	43	34	27	36	41	50	37	47
Personality	1	—	11	18	27	29	36	28	35
Psychometrics	16	31	15	20	19	15	22	17	25
Social	74	65	80	68	81	92	90	100	107
Psychology, General	68	32	27	25	16	16	14	31	33
Psychology, Other	11	14	8	6	4	6	5	7	9

ARTS AND HUMANITIES

HISTORY	317	331	364	375	366	389	529	606	644
ENGLISH AND AMERICAN LANG AND LIT	333	340	386	373	464	492	531	666	666
GERMAN LANG AND LIT	—	—	—	—	35	39	77	65	92
FRENCH LANG AND LIT	—	—	—	—	51	63	83	84	112
SPANISH AND PORTUGUESE LANG AND LIT	—	—	—	—	28	55	62	91	98
LINGUISTICS	42	28	46	46	46	45	64	72	98
ITALIAN LANG AND LIT	—	—	—	—	3	4	5	5	4
RUSSIAN LANG AND LIT	—	—	—	—	7	4	10	11	12
OTHER SLAVIC LANG AND LIT	—	—	—	—	6	8	5	8	8
ALL OTHER MODERN LANGUAGES	—	—	—	—	9	7	8	16	17
MODERN FOREIGN, UNSPECIFIED	157	180	168	189	57	29	21	41	37
CLASSICAL LANG AND LIT	32	39	45	48	56	57	74	92	71
PHILOSOPHY	99	105	135	148	125	138	139	148	199
SPEECH AND DRAMATIC ARTS	106	130	143	147	173	191	193	237	240
ART, FINE AND APPLIED	54	48	48	54	41	26	45	52	52
MUSIC	70	67	100	104	88	102	126	119	124
ARTS AND HUMANITIES, GENERAL	4	3	4	1	3	3	—	2	3
ARTS AND HUMANITIES, OTHER	4	1	9	10	4	11	12	9	20

PROFESSIONAL FIELDS

BUSINESS ADMINISTRATION	120	137	140	148	199	224	245	286	370
RELIGION AND THEOLOGY	134	142	146	124	159	173	177	185	188
HOME ECONOMICS	13	14	23	30	27	35	30	43	43
JOURNALISM	7	14	13	13	9	13	21	24	17
LAW, JURISPRUDENCE	31	22	19	32	35	30	34	24	28
LIBRARY AND ARCHIVAL SCIENCE	18	7	19	16	9	15	14	12	17
ARCHITECTURE	2	—	2	1	—	2	5	5	7
SCI, GEN; SCI, OTHER; OTHER GEN	1	1	6	4	6	12	20	5	60

TABLE 1
(continued)

Subfield of Doctorate	Fiscal Year of Doctorate								
	1958	1959	1960	1961	1962	1963	1964	1965	1966
EDUCATION									
Foundations: Social, Philos	—	1	—	1	69	107	134	193	232
Elementary Education, General	1	1	71	132	126	128	149	187	203
Secondary Education, General	—	—	100	227	153	78	127	136	160
Educational Psychology	5	6	2	4	81	173	187	218	225
Educational Meas and Statist	—	—	1	—	16	18	25	31	40
Educational Admin and Supervision	2	1	313	513	609	717	700	836	905
Guidance, Couns, Student Pers	1	1	3	3	121	217	291	337	377
Spec Educ, Field Unspecified	—	—	—	—	4	14	20	21	25
Gifted	—	—	—	—	2	4	7	5	2
Speech	—	—	—	—	6	7	38	29	33
Physically Handicapped	—	—	—	—	2	8	7	9	14
Emot and Ment Handicapped	—	—	—	1	16	39	47	45	56
Audio-Visual Media	—	—	—	—	13	24	19	34	37
Agriculture	—	—	23	41	25	29	32	29	43
Art	—	—	—	1	7	34	20	21	19
Business	2	2	4	—	20	41	42	43	52
English	—	—	—	—	21	37	26	27	42
Foreign Language	—	—	—	—	7	4	1	7	7
Home Economics	—	—	—	—	9	18	19	19	21
Industrial Arts	—	—	—	—	8	21	35	34	36
Mathematics	—	1	—	1	14	31	36	60	56
Music	—	3	1	—	30	68	69	71	57
Phys Ed, Health, and Rec	9	12	78	111	104	131	121	141	172
Science Education	—	—	52	79	93	75	79	104	105
Social Science Education	—	—	1	—	23	26	42	35	28
Vocational Education	—	—	1	—	7	16	11	16	29
Other Special Fields	1	—	—	3	28	45	28	16	15
Education, General	1,468	1,524	897	563	282	16	24	15	29
Education, Other	—	—	—	—	2	4	12	8	6

Note: Very large trend changes within one year are generally caused by changes in subfield definition or subfield inclusion in the questionnaire specialties list.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

For historical data, see pp. 10-13 of NAS-NRC Publ. 1142.

TABLE 2

Characteristics of Doctorate Recipients, by Field of Doctorate, FY 1966

Field of Doctorate	Characteristics of 1966 Doctorate Recipients											
	Number of Doctorate Recipients FY 1966	Sex		Citizenship			Marital Status			Age at Doctorate		
		M %	F %	U.S. %	Non U.S. %	Unk %	Mrd %	Sgl %	Unk %	Q ₁ * (years)	Q ₂	Q ₃
TOTAL ALL FIELDS	17,865	88	12	82	14	4	73	22	5	28.5	31.8	37.0
PHYSICAL SCIENCES AND ENGINEERING	6,077	97	3	78	18	4	72	23	5	27.4	29.3	32.4
MATHEMATICS	766	94	6	82	16	2	65	31	4	26.7	28.5	31.5
PHYSICS AND ASTRONOMY	1,049	98	2	79	16	5	70	24	6	27.5	29.0	31.6
Elementary Particles	161	100	—	78	20	2	68	30	2	27.2	28.4	30.0
Solid State	295	97	3	86	14	—	71	28	1	27.9	29.4	31.8
CHEMISTRY	1,580	94	6	81	15	4	68	28	4	27.0	28.4	31.1
Organic	641	93	7	86	13	1	70	28	1	26.8	27.9	30.5
Physical	425	94	6	84	15	1	72	26	2	27.1	28.5	31.2
EARTH SCIENCES	399	97	3	81	16	3	80	15	5	28.6	31.1	34.7
ENGINEERING	2,283	100	—	73	23	4	76	18	5	28.0	30.2	33.5
Chemical	362	99	1	79	16	5	71	22	7	27.1	28.6	31.3
Electrical	469	100	—	71	25	4	72	22	6	28.0	30.2	33.2
BIOLOGICAL SCIENCES	2,869	88	12	77	21	2	76	21	4	28.4	31.1	34.9
AGRICULTURE AND FORESTRY	572	99	1	65	33	2	81	15	4	29.5	32.3	35.7
HEALTH SCIENCES	316	91	9	75	24	1	77	20	3	29.4	32.3	36.6
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	804	85	15	78	20	2	72	24	3	27.7	29.7	33.4
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	659	83	17	79	20	1	76	22	2	28.4	30.8	35.2
ECOLOGY, HYDROBIOLOGY	46	98	2	83	17	—	85	11	4	28.5	30.7	33.8
BOTANY, ZOOLOGY, GENERAL BIOLOGY	472	86	14	85	10	6	73	20	7	28.4	30.9	35.3
SOCIAL SCIENCES	2,666	85	15	83	13	4	74	21	5	28.6	32.0	36.6
PSYCHOLOGY	1,133	79	21	92	6	3	72	24	4	28.0	30.6	35.3
ANTHROPOLOGY AND ARCHEOLOGY	109	78	22	82	15	4	72	24	4	30.6	34.3	38.1
SOCIOLOGY	258	84	16	86	12	2	76	20	4	29.7	33.4	38.3
ECONOMICS AND ECONOMETRICS	622	96	4	70	25	5	76	18	6	28.8	32.2	36.5
POLIT SCI AND INT RELAT	401	92	8	77	18	5	74	19	8	28.6	31.7	36.7
ARTS AND HUMANITIES	2,497	80	20	87	8	5	67	27	6	29.7	33.6	38.3
HISTORY	644	88	12	87	7	6	69	25	7	29.2	32.8	37.1

TABLE 2
(continued)

Characteristics of 1966 Doctorate Recipients												
Field of Doctorate	Number of Doctorate Recipients FY 1966	Sex		Citizenship			Marital Status			Age at Doctorate		
		M %	F %	U.S. %	Non U.S. %	Unk %	Mrd %	Sgl %	Unk %	Q ₁ * (years)	Q ₂	Q ₃
ENGLISH AND AMERICAN LANG AND LIT	666	77	23	90	6	4	67	29	5	29.6	33.4	37.7
MODERN FOREIGN LANG AND LIT	478	68	32	79	17	4	62	32	6	30.3	34.1	39.3
CLASSIC LANG AND LIT	71	87	13	82	14	4	62	32	6	30.4	33.9	38.9
PHILOSOPHY	199	89	11	82	9	9	67	23	11	28.3	30.6	34.7
SPEECH AND DRAMATIC ARTS	240	84	16	96	4	—	78	22	—	30.7	35.0	39.6
FINE ARTS AND MUSIC	176	81	19	89	7	4	68	26	6	32.7	37.2	41.9
<u>PROFESSIONAL FIELDS</u>	<u>730</u>	<u>90</u>	<u>10</u>	<u>74</u>	<u>12</u>	<u>14</u>	<u>67</u>	<u>18</u>	<u>15</u>	<u>30.8</u>	<u>34.5</u>	<u>39.2</u>
BUSINESS ADMINISTRATION	370	96	4	80	11	9	76	14	11	29.8	33.5	38.6
RELIGION AND THEOLOGY	188	94	6	79	10	11	68	21	11	32.5	35.2	38.8
<u>EDUCATION</u>	<u>3,026</u>	<u>81</u>	<u>19</u>	<u>95</u>	<u>4</u>	<u>1</u>	<u>81</u>	<u>18</u>	<u>2</u>	<u>34.2</u>	<u>38.4</u>	<u>43.5</u>

*Q₁ (first quartile): one quarter received the doctorate at this age or younger; Q₂ (second quartile or median): one half received the doctorate at this age or younger; Q₃ (third quartile): three fourths received the doctorate at this age or younger.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

For historical data, see pp. 44-54 of Publ. 1142.

More than 70 percent of these people were married by the time they received the doctorate.

The biological scientists had the highest percentage of non-United States citizens; one third of the doctorate recipients in agriculture were foreigners. Arts and humanities and education had the lowest percentage of non-United States citizens. (Chapter IV describes the United States doctorates of foreign origin.)

Age at receipt of the doctorate varies appreciably by field. Physical scientists, especially chemists, complete their formal education earliest; three fourths have the doctorate by age 33. In contrast, not until age 44 do three fourths of the education and fine arts majors receive the doctorate. These statistics may be misleading and require some interpretation. By custom, natural scientists attempt to complete all their formal education in one uninterrupted sequence. Certain arts and humanities, professional, and education fields encourage their students to obtain professional experience before entering upon doctoral work. More detailed data on time lapse from baccalaureate to doctorate is presented in Chapter II.

DOCTORATES GRANTED
BY INSTITUTION

Doctoral Institutions

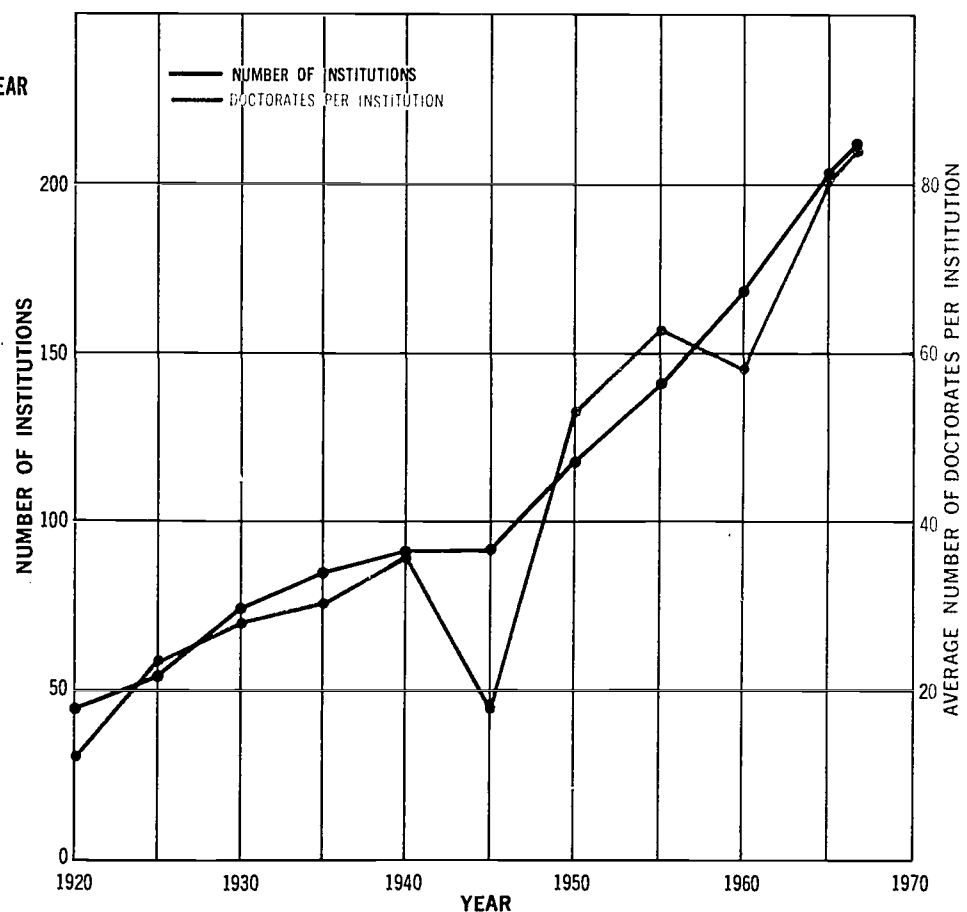
The number of doctorate-granting institutions⁴ in the United States has been increasing for the past 45 years, doubling about every 20 years. The number of doctoral degrees granted by these institutions has increased at a more rapid rate, doubling every 8 - 10 years. As a consequence, the average number of doctorates granted per institution has increased from 12 in 1920 to 85 in 1966. Figure 3 depicts these relations.

The averages plotted in Figure 3 obscure a great deal of variability among institutions. For instance, four universities granted over 500 doctorates in FY 1966 while twenty universities granted 2 or fewer doctorates during that year. Does the average increase in doctorates per institution reflect an enormous increase in the doctoral production of a few large institutions, or has the number of "high producer" institutions been increasing? Figure 4 supplies data on this question.

During the post-World-War-II era (1950 - 1966) the number of doctoral institutions almost doubled, increasing from 118 to 212. Concurrently, the number of institutions supplying a given percentage of doctorates (25, 50, or 75 percent) also doubled. As a result, the percentage of institutions supplying a given percentage of doctorates has remained almost constant. Four to five percent of the institutions supplied 25 percent of the doctorates during the entire period; eleven percent of the institutions supplied 50 percent of the doctorates; and twenty-four to twenty-six percent supplied 75 percent of the doctorates. As the number of doctorate-granting institutions grows, there is a proportionate increase in the number of inner-core high producers. The large

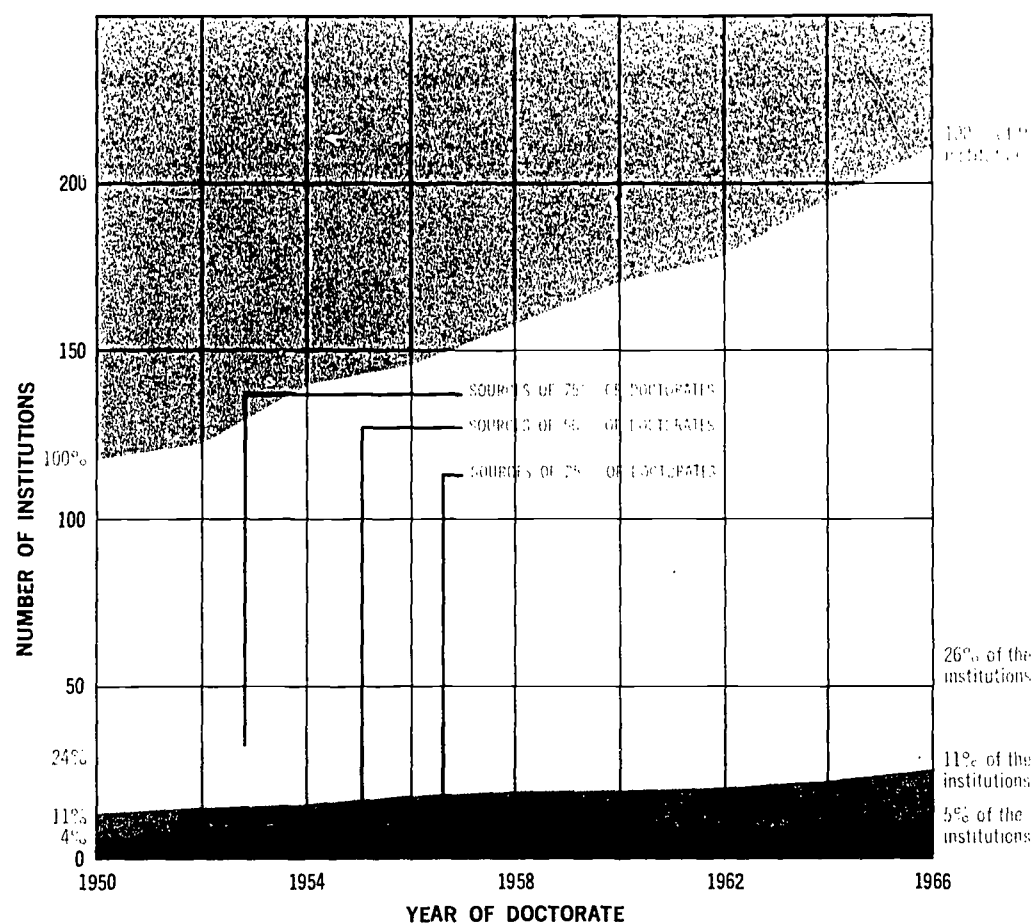
4. A doctorate-granting institution is defined here as one that has granted at least 1 research doctorate, not simply as one that offers a doctoral program.

FIGURE 3
NUMBER OF INSTITUTIONS
GRANTING DOCTORATES, FIVE-YEAR
INTERVALS, 1920-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 4
NUMBER OF U.S. INSTITUTIONS
THAT GRANTED 25%, 50%, AND
75% OF ALL DOCTORATES,
1950-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.
 For historical data, see p. 18 of NAS-NRC Publication 1142.

established institutions are growing, but new centers of high doctoral production are continually being created.

Although 14 of the top 20 institutions of 1920 remain in the top 20 of 1966, changes are occurring. All 6 of the "newcomers" are public, and 5 of the 6 that dropped below rank 20 are private. In 1920, 12 of the top 20 were private universities and 4 of the top 5 were private. By 1966, only 7 of the top 20 and 1 of the top 5 were private universities.⁵ Large public universities are slowly taking the lead as sources of doctorates.

Even the very large universities specialize to a certain degree. Their doctoral programs have larger outputs in certain fields than in others. As a result, institutions that are leading over-all doctoral sources are not leaders in every field. Table 3 illustrates this point. The table lists in rank order the leading 100 doctorate-granting institutions based on total doctorates granted between FY 1958 and FY 1966. The body of the table shows the rank of each institution as a doctoral source in various fields for three time periods.

Four of the institutions listed in the top twenty-five ranked below 100 in some field during the FY 1964-1966 period. Conversely, some institutions with over-all ranks below 100, and not listed in Table 3, have relatively high ranks in one or two fields. For instance, the University of Miami ranks 2nd in ecology, and Montana State University ranks 19th in that field; Drew University ranks 6th in religion and theology; and the University of Mississippi is 17th in health sciences.

5. NAS-NRC, Publ. 1142, *op. cit.*, p. 19, and unpublished data from the Doctorate Records File.

TABLE 3

Ranks, by Doctorate Output, of One Hundred Leading Doctorate-Granting Institutions, by Field, FY 1958 - 1966

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	Rank, by Doctorate Output, of Institution by Field of Doctorate																									
		MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOG, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC, LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
ILLINOIS UNIVERSITY OF	1958-60 1961-63 1964-66	3 7 7	5 6 6	1 1 1	3 4 4	2 2 2	6 6 6	4 10 10	3 3 3	8 4 4	16 16 16	6 8 8	11 10 10	28 30 30	7 23 23	5 12 12	22 21 21	12 38 38	6 9 9	11 12 12	14 20 20	19 24 24	7 5 5	24 13 13	4 5 5	28 33 33	9 10 10
WISCONSIN, UNIVERSITY OF	1958-60 1961-63 1964-66	20 9 9	22 5 8	5 5 5	7 2 1	6 15 15	1 2 2	1 2 2	2 2 2	1 1 1	43 5 5	1 3 3	24 20 20	12 12 12	9 9 9	3 3 3	19 24 24	3 3 3	3 2 2	7 10 10	14 18 18	22 24 24	2 2 2	29 22 22	11 16 16	28 33 33	13 13 13
CALIF, UNIV OF, BERKELEY	1958-60 1961-63 1964-66	6 1 1	1 1 1	4 2 2	12 6 6	9 8 8	21 22 22	21 17 17	1 1 1	4 4 4	9 12 12	3 2 2	14 9 9	5 7 7	9 9 9	4 3 3	11 15 15	5 5 5	23 23 23	5 5 5	11 11 11	13 13 13	31 38 38	15 15 15	38 45 45	28 33 33	15 15 15
HARVARD UNIV MASS	1958-60 1961-63 1964-66	2 2 3	2 2 2	8 10 10	6 6 6	20 37 47	41 48 57	18 8 11	5 5 5	23 18 19	3 12 19	5 13 13	10 10 10	2 1 1	2 5 8	2 1 1	3 1 4	1 1 1	2 1 3	2 2 2	1 1 1	3 3 3	31 36 36	4 4 4	2 1 1	8 9 9	6 20 20
COLUMBIA UNIVERSITY N Y	1958-60 1961-63 1964-66	17 11 17	4 5 4	13 13 24	1 7 5	8 12 17	51 24 57	24 18 11	19 12 22	26 23 21	16 35 38	18 2 5	2 2 2	1 2 5	2 2 5	2 2 2	1 2 2	2 2 2	1 2 1	1 4 3	2 8 9	16 26 34	13 6 9	9 7 11	4 8 7	28 33 33	10 10 10
MICHIGAN, UNIVERSITY OF	1958-60 1961-63 1964-66	8 6 6	9 13 11	11 26 26	15 10 7	4 5 6	18 22 4	8 4 4	26 24 40	13 7 20	1 3 11	2 2 2	5 6 6	7 14 14	15 18 18	6 13 12	13 10 19	7 7 7	4 6 6	27 12 12	9 12 12	2 7 18	2 8 12	8 7 18	7 24 32	17 17 17	
NEW YORK UNIVERSITY	1958-60 1961-63 1964-66	1 4 3	11 24 26	32 41 46	25 29 29	29 28 22	51 48 57	31 34 61	14 16 27	19 39 35	43 42 58	15 42 3	1 1 1	20 15 23	7 8 8	12 12 12	5 3 1	20 10 9	9 9 9	11 10 10	21 23 17	22 19 24	11 19 19	3 4 4	18 16 16	2 5 5	
OHIO STATE UNIVERSITY	1958-60 1961-63 1964-66	24 25 24	13 16 20	6 8 6	17 25 16	10 8 9	7 7 10	5 8 9	14 13 13	5 7 10	9 16 58	10 7 15	6 19 8	7 3 30	4 4 8	6 7 9	25 26 52	13 28 22	21 27 32	17 19 21	9 33 17	34 36 33	5 2 2	8 10 17	5 4 9	28 33 32	7 7 7
MINNESOTA, UNIVERSITY OF	1958-60 1961-63 1964-66	15 16 14	39 33 34	9 18 18	25 36 24	13 19 14	5 5 3	3 1 5	12 3 5	3 5 3	16 17 26	14 5 15	3 7 17	28 10 6	6 14 11	16 14 9	14 18 16	10 10 12	20 19 24	27 33 39	12 18 18	10 10 10	19 17 21	21 18 21	28 33 32	25 29 29	
STANFORD UNIVERSITY CAL	1958-60 1961-63 1964-66	12 7 2	18 39 15	39 45 34	5 3 3	3 3 3	41 48 57	60 38 70	36 37 19	37 27 36	23 20 17	20 22 31	27 15 11	16 33 33	32 24 16	24 21 27	22 18 27	10 15 13	15 19 17	19 33 14	27 33 17	9 10 14	15 10 32	7 19 10	28 33 32	5 17 17	
PURDUE UNIVERSITY	1958-60 1961-63 1964-66	9 18 20	24 31 17	3 5 4	57 56 63	5 4 5	8 6 7	2 3 3	4 7 8	7 6 8	9 17 1	12 35 21	4 4 3	28 29 39	24 22 25	14 15 7	59 71 72	76 85 98	76 79 96	57 66 73	27 33 39	48 53 64	11 6 11	38 42 36	38 29 36	59 52 52	
INDIANA UNIVERSITY	1958-60 1961-63 1964-66	24 24 23	41 35 26	33 23 27	20 19 16	76 86 106	51 48 57	84 34 36	42 50 20	27 25 17	43 15 31	15 22 18	22 7 3	7 9 13	16 13 24	15 12 26	16 10 17	13 16 10	9 7 10	27 33 32	22 13 16	10 13 20	2 1 1	28 33 33	3 3 3		
CHICAGO, UNIVERSITY OF	1958-60 1961-63 1964-66	4 15 10	7 12 16	28 15 19	17 11 12	76 86 106	51 48 57	12 14 11	16 11 15	23 34 44	23 17 26	19 6 9	7 3 3	3 2 1	2 6 14	6 5 6	2 5 21	6 6 6	7 19 18	15 16 10	4 5 5	31 36 38	15 22 22	10 17 20	5 17 30	31 28 28	
MASS INSTITUTE OF TECHNOLOGY	1958-60 1961-63 1964-66	11 3 3	3 2 2	2 4 5	8 6 6	1 1 1	51 48 60	84 67 80	46 21 27	102 118 63	43 58 96	88 79 88	28 104 69	61 37 39	7 10 9	37 35 27	59 76 98	76 79 96	48 53 55	27 33 39	48 53 55	31 38 38	38 42 36	30 33 32	28 33 32	101 108 120	
CORNELL UNIVERSITY N Y	1958-60 1961-63 1964-66	30 38 15	6 16 9	17 39 13	24 39 45	10 12 10	2 3 5	5 19 14	6 8 4	2 7 5	6 9 5	9 11 9	29 48 30	5 5 5	18 14 7	16 15 22	30 26 26	26 21 20	13 15 10	11 18 6	44 11 16	25 19 23	21 16 26	18 26 32	28 34 45		
YALE UNIVERSITY CONN	1958-60 1961-63 1964-66	12 22 15	10 10 5	17 30 16	19 14 23	10 24 34	23 31 36	31 24 17	19 24 26	32 30 27	3 17 26	15 14 28	22 32 26	10 10 18	18 13 12	10 8 8	7 6 5	5 5 5	3 3 3	2 5 2	1 26 1	31 40 17	5 7 11	38 40 32	1 3 120		
MICHIGAN STATE UNIVERSITY	1958-60 1961-63 1964-66	30 44 35	45 41 44	27 30 14	36 47 44	22 22 22	2 2 2	18 19 30	22 16 14	18 11 17	6 17 14	21 9 10	18 10 6	28 17 17	18 4 4	10 15 7	49 26 54	70 52 28	41 66 39	57 46 37	27 30 39	34 30 45	25 13 15	27 29 14	28 8 32	11 7 4	
CALIF, UNIV OF, LOS ANGELES	1958-60 1961-63 1964-66	5 10 9	15 14 24	12 27 23	4 19 10	27 27 29	24 35 48	51 46 15	18 9 9	21 12 17	23 36 26	4 3 4	12 14 13	10 4 18	27 17 37	32 26 37	22 20 24	15 20 11	24 29 19	10 12 9	27 34 24	34 31 30	31 29 30	21 12 8	28 32 32	20 14 14	
TEXAS, UNIVERSITY OF	1958-60 1961-63 1964-66	23 13 12	23 28 18	14 14 12	19 12 16	22 19 10	51 48 57	22 56 70	23 18 36	17 16 13	23 17 14	8 2 2	8 18 18	28 25 30	41 35 26	26 29 37	19 26 37	8 21 13	12 15 7	13 17 13	27 33 24	34 36 36	31 36 35	6 3 3	28 33 33	28 33 33	
COLUMBIA UNIV TEACH COLL N Y	1958-60 1961-63 1964-66	77 88 101	81 98 120	116 136 148	57 63 79	76 86 106	51 48 57	84 79 136	99 117 128	102 118 63	43 55 98	88 92 109	28 104 117	61 37 39	7 10 9	37 59 76	76 79 96	48 53 55	27 33 39	48 53 64	31 38 38	38 42 48	30 33 32	28 33 32	101 108 120		
PENNSYLVANIA, UNIVERSITY OF	1958-60 1961-63 1964-66	19 25 43	24 31 18	9 16 79	57 63 79	27 24 18	48 57 57	24 27 27	51 26 43	7 36 38	11 17 41	3 33 33	4 7 40	13 10 15	10 21 8	13 9 15	13 9 8	4 5 4	6 4 12	7 10 10	16 36 40	31 36 22	24 38 38	21 21 38	23 33 32	40 49 58	
IOWA, UNIVERSITY OF	1958-60 1961-63 1964-66	50 41 32	54 51 50	19 29 29	36 44 39	31 44 39	51 57 57	8 12 39	12 44 60	32 32 43	43 55 26	7 16 31	18 28 39	27 25 17	44 26 32	27 29 35	34 37 49	13 18 13	27 29 26	31 33 24	2 4 4	16 24 21	2 1 1	16 11 14	16 13 13		
PENNSYLVANIA STATE UNIV	1958-60 1961-63 1964-66	64 41 35	27 16 12	19 8 8	2 2 2	18 26 26	60 74 94	28 21 30	32 21 58	43 55 36	60 42 36	13 19 39	35 30 35	35 44 49	38 29 39	53 45 61	61 74 47	38 46 53	27 46 39	48 53 64	16 23 21	38 48 36	38 42 48	28 33 32	8 6 6		
SOUTHERN CALIF, UNIVERSITY OF	1958-60 1961-63 1964-66	50 59 78	59 68 90	56 69 100	33 34 34	50 52 57	61 46 57	11 61 52	35 43 58	43 55 11	29 70 55	28 24 39	9 19 29	23 19 22	7 32 28	20 32 23	30 17 17	14 13 13	22 36 26	6 7 12	1 9 2	25 19 14	6 7 10	5 18 20	5 5 5		
NORTHWESTERN UNIVERSITY ILL	1958-60 1961-63 1964-66	42 49 58	31 43 43	21 27 27	15 12 18	16 18 26	51 57 57	28 16 41	31 34 33	45 50 36	43 72 26	51 19 62	29 16 12	32 34 18	26 32 16												

TABLE 3
(continued)

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	Field of Doctorate																									
		MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM., BIOPHYS., PHYSIOL., BIostatist	ANAT., CYTOL., ENTOMOL., GENET., MICROBIOL., EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
IOWA STATE UNIV OF SCI & TECH	1958-60 1961-63 1964-66	15 14 17	30 36 37	7 7 7	45 53 53	14 17 17	4 3 3	10 34 34	25 140 140	9 10 10	43 26 26	25 21 21	88 110 110	28 28 28	32 20 20	9 10 10	59 71 72	76 85 98	76 79 96	57 73 73	27 33 33	49 53 53	31 38 38	38 42 42	28 32 32	73 89 89	
WASHINGTON, UNIV OF, WASH	1958-60 1961-63 1964-66	14 23 26	29 23 31	14 11 17	11 12 12	39 31 31	29 24 20	16 16 20	26 26 26	40 42 26	43 17 17	38 38 31	15 17 16	23 12 12	15 17 12	26 39 40	19 39 37	25 15 22	11 13 8	15 18 14	14 23 25	10 36 45	24 38 20	13 35 3	28 32 32	45 71 69	
PRINCETON UNIVERSITY	1958-60 1961-63 1964-66	7 4 11	7 7 9	31 31 21	8 12 19	22 16 16	51 58 58	60 79 94	36 79 94	83 89 94	43 36 36	60 50 55	46 33 33	16 26 26	21 18 12	12 19 11	8 19 11	16 17 13	15 13 13	20 21 21	7 8 8	31 31 31	10 17 10	38 40 40	18 21 21	101 108 120	
PITTSBURGH, - UNIVERSITY OF	1958-60 1961-63 1964-66	35 33 30	33 34 39	44 40 40	51 56 41	34 21 44	51 44 57	14 8 8	36 36 16	61 27 27	23 26 26	66 42 43	26 33 41	28 28 17	32 32 32	20 26 40	31 34 36	44 52 52	35 18 29	27 30 37	27 15 32	34 36 33	20 32 20	25 32 32	21 24 16	18 25 28	
MARYLAND, UNIVERSITY OF	1958-60 1961-63 1964-66	20 25 26	16 20 12	29 35 44	57 63 79	34 39 41	10 12 19	22 21 30	46 39 22	14 13 10	43 55 58	27 27 68	35 33 33	28 28 17	27 42 26	62 49 47	29 42 42	47 39 39	35 47 33	33 27 33	27 48 45	31 36 38	38 42 48	30 36 32	28 33 32	31 37 31	
NORTH CAROLINA, UNIVERSITY OF	1958-60 1961-63 1964-66	17 16 17	47 53 37	49 37 38	42 49 49	76 98 98	51 57 57	28 27 35	54 45 45	57 52 52	43 38 38	21 25 25	43 33 33	28 19 25	17 13 11	35 58 58	26 9 9	16 12 12	19 15 15	7 11 11	4 14 14	34 35 35	31 31 31	19 28 28	28 32 32	45 58 58	
RUTGERS, THE STATE U, N J	1958-60 1961-63 1964-66	50 55 50	43 53 51	22 20 20	42 47 53	50 67 67	8 13 13	35 46 46	9 15 16	6 6 6	6 36 36	11 20 6	73 64 64	28 29 29	61 53 53	48 52 37	29 32 32	76 48 56	54 62 56	57 37 37	27 33 33	48 33 64	31 36 38	38 42 48	28 33 32	35 54 27	
FLORIDA, UNIVERSITY OF	1958-60 1961-63 1964-66	27 32 61	66 53 36	36 18 36	57 56 79	42 34 22	51 17 20	22 17 20	42 17 34	12 12 58	83 74 58	9 20 35	32 20 36	28 51 39	47 30 52	30 32 35	38 37 34	37 22 58	17 34 37	48 42 55	27 33 39	48 26 23	11 38 48	25 26 31	23 20 32	40 33 38	
BOSTON UNIVERSITY	1958-60 1961-63 1964-66	58 66 78	75 79 102	81 80 59	30 34 106	76 86 57	51 57 57	60 56 61	35 45 45	28 59 58	54 55 78	15 25 86	15 39 19	41 25 29	73 59 84	28 25 84	17 45 21	25 59 46	30 26 26	26 26 32	15 31 31	15 38 38	6 19 10	38 40 48	2 12 12	11 31 31	
MISSOURI, UNIV OF, COLUMBIA	1958-60 1961-63 1964-66	58 38 68	45 48 57	53 36 61	25 36 49	41 50 49	16 15 70	51 55 70	51 28 22	52 30 36	43 55 25	38 57 52	56 29 25	28 29 12	27 26 30	48 26 30	49 37 44	37 28 38	35 47 50	38 36 37	27 36 39	48 53 53	11 23 18	38 42 48	28 32 32	16 23 23	
JOHNS HOPKINS UNIVERSITY MO	1958-60 1961-63 1964-66	64 59 45	13 18 20	70 43 55	17 19 37	22 48 33	51 21 57	10 19 16	21 36 86	27 9 72	9 63 72	29 60 30	55 63 60	20 24 44	61 55 60	24 26 44	16 29 31	23 33 29	26 33 50	33 19 18	2 8 6	22 36 33	27 38 38	28 40 48	16 33 32	82 93 104	
COLORADO, UNIVERSITY OF	1958-60 1961-63 1964-66	45 32 22	36 30 14	39 37 19	52 52 19	44 48 57	51 61 57	35 67 61	51 67 78	40 65 58	16 33 38	58 44 23	32 33 23	38 29 17	32 34 24	38 26 24	43 37 31	39 41 17	27 40 29	27 30 25	44 33 55	31 36 36	31 38 37	28 40 24	38 33 32	33 27 21	
DUKE UNIVERSITY N CAR	1958-60 1961-63 1964-66	35 25 23	27 28 30	46 47 42	57 63 72	76 80 72	28 25 25	60 56 26	36 59 48	40 22 19	2 14 12	40 41 52	28 29 12	32 29 30	29 46 26	26 22 20	25 34 20	32 24 15	48 42 47	27 33 47	22 33 24	31 36 38	38 42 48	38 40 48	10 6 9	63 63 63	
CATHOLIC UNIV OF AMERICA D C	1958-60 1961-63 1964-66	30 49 61	29 56 32	56 63 84	71 63 79	71 65 62	51 48 57	84 79 70	76 85 44	16 34 58	26 17 55	26 33 44	21 19 16	17 17 14	21 17 17	19 52 52	19 72 72	22 56 34	32 40 46	23 24 33	14 5 10	6 31 7	31 29 38	38 40 48	3 4 50	48 48 48	
SYRACUSE UNIVERSITY	1958-60 1961-63 1964-66	58 55 49	26 44 33	70 98 71	79 63 61	51 40 39	51 48 79	84 48 94	35 45 113	35 55 36	47 44 96	43 41 36	27 19 33	38 25 30	32 33 30	47 47 30	16 18 13	37 36 26	41 30 59	43 30 42	31 53 50	23 30 38	38 40 42	28 37 42	26 33 38	33 39 39	
KANSAS, UNIVERSITY OF	1958-60 1961-63 1964-66	45 49 45	54 51 63	23 23 18	30 17 41	54 57 46	41 48 57	60 46 70	59 47 74	16 23 24	23 25 24	32 27 46	27 29 7	28 29 39	47 63 64	73 66 73	49 48 42	53 66 48	26 28 50	27 28 29	27 33 39	48 53 64	31 36 15	38 42 48	28 32 32	38 48 48	
NEBRASKA, UNIVERSITY OF	1958-60 1961-63 1964-66	77 49 64	74 63 74	56 60 50	45 41 89	76 80 24	22 27 47	35 46 74	76 50 54	52 48 54	23 25 58	26 60 55	51 39 48	28 39 46	41 38 47	38 59 44	59 48 44	30 45 48	70 47 43	57 40 66	27 33 39	48 53 64	31 36 14	38 42 48	28 32 32	28 32 32	
LA STATE UNIV & AG & MECH COLL	1958-60 1961-63 1964-66	50 44 43	47 56 59	62 56 48	20 28 34	48 48 84	11 13 10	35 80 80	68 61 83	68 30 36	45 55 36	38 27 55	28 26 23	18 25 39	38 40 39	59 25 47	47 71 64	70 56 58	48 26 53	27 34 27	48 33 39	20 53 53	18 42 16	48 48 48	15 11 18	55 63 63	
OKLAHOMA, UNIVERSITY OF	1958-60 1961-63 1964-66	64 78 85	63 68 77	36 23 31	66 42 35	51 58 57	31 56 20	31 49 38	40 59 74	16 23 24	23 25 24	32 27 46	27 29 7	28 29 39	47 63 64	73 66 73	49 48 42	53 66 48	26 28 50	27 28 29	27 33 39	48 53 64	31 36 14	38 42 48	28 32 32	23 29 25	
CALIFORNIA INST OF TECHNOLOGY	1958-60 1961-63 1964-66	30 49 21	11 4 10	35 25 37	15 16 12	10 48 57	51 48 57	84 84 90	35 45 44	45 55 99	25 92 109	88 95 105	28 29 29	61 63 64	73 84 93	59 72 72	76 85 98	76 79 96	57 66 73	27 33 39	48 53 64	31 36 38	38 42 48	28 33 32	101 108 120		
FLORIDA STATE UNIVERSITY	1958-60 1961-63 1964-66	77 49 49	66 52 57	56 52 26	31 27 106	76 86 57	51 57 57	60 79 94	83 50 64	23 25 99	38 33 68	29 23 23	36 39 39	28 39 39	55 55 84	62 62 40	44 62 44	40 34 53	48 40 43	27 33 39	48 41 33	25 34 35	15 18 14	38 40 48	28 32 32	39 23 22	
ROCHESTER, UNIVERSITY OF	1958-60 1961-63 1964-66	50 66 66	16 15 23	24 38 54	57 63 63	60 65 63	51 48 57	24 36 31	21 37 36	43 55 58	38 30 28	22 34 48	28 30 39	55 63 69	73 57 68	59 71 72	37 41 29	48 34 34	57 66 73	27 33 39	48 41 33	31 36 38	1 36 6	38 40 48	28 33 32	98 98 91	
WAYNE STATE UNIV MICH	1958-60 1961-63 1964-66	64 71 49	63 35 90	30 38 38	57 63 74	76 74 78	51 57 57	84 79 94	46 48 70	68 58 52	43 38 38	68 62 86	48 32 30	28 39 39	41 42 56	73 84 40	59 71 72	61 47 46	48 46 33	57 55 55	27 48 64	15 18 8	38 42 48	28 32 32	28 32 32	22 16 16	
OREGON, UNIVERSITY OF	1958-60 1961-63 1964-66	27 32 32	66 83 71	97 59 56	57 56 106	76 86 57	51 48 57	84 67 70	28 38 44	102 83 90	16 55 55	64 60 62	48 46 48	16 25 12	32 43 18	38 45 34	53 48 34	48 46 46	43 46 39	27 33 39	48 53 64	31 30 30	38 42 48	28 29 32	24 23 11		
UTAH, UNIVERSITY OF	1958-60 1961-63 1964-66	73 41 35	41 41 71	48 24 42	32 14 22	51 37 37	5 48 57	15 48 41	59 70 70	27 19 26	43 47 55	51 46 39	48 46 25	28 25 60	47 73 73	34 56 64	76 59 84	68 63 62	48 54 60	27 33 26	48 50 50	16 30 30	29 40 40	38 42 42	28 32 32	63 63 63	

TABLE 3
(continued)

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958-1966)	Year of Doctorate	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOG, HYDROLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
WESTERN RESERVE UNIV OHIO	1958-60	73	81	44	57	76	51	34	46	40	43	76	21	28	61	73	59	30	35	27	27	48	19	38	28	49	
	1961-63	83	83	65	63	86	48	34	44	30	35	64	27	30	69	47	64	30	33	30	30	48	19	38	28	49	
	1964-66	90	90	67	71	106	57	47	44	30	35	64	27	30	69	47	64	30	33	30	30	48	19	38	28	49	
OKLAHOMA ST U OF AG & AP SCI	1958-60	50	81	70	57	37	27	44	86	37	43	35	88	28	61	48	59	76	76	57	27	48	31	38	38	45	
	1961-63	20	89	80	63	36	19	79	61	50	36	25	78	29	63	48	71	85	79	66	33	48	31	38	38	45	
	1964-66	35	59	80	79	20	16	61	59	32	11	13	86	39	69	24	72	98	96	73	33	48	31	38	38	45	
CARNEGIE INST OF TECH PA	1958-60	24	18	36	57	7	51	84	99	102	43	84	75	28	61	51	59	76	76	57	27	48	31	38	19	101	
	1961-63	31	19	32	63	8	48	79	79	117	35	84	75	28	61	51	59	76	76	57	27	48	31	38	19	101	
	1964-66	39	29	38	79	11	57	94	136	126	38	109	79	29	63	52	72	98	96	73	33	48	31	38	19	101	
OREGON STATE UNIV OREG	1958-60	45	66	46	57	60	14	84	51	15	23	26	88	28	55	62	59	76	76	57	27	48	31	38	38	66	
	1961-63	32	76	40	47	65	9	79	42	21	3	20	104	28	63	35	71	85	79	66	33	48	31	38	38	66	
	1964-66	39	67	34	29	59	10	41	36	9	7	18	117	39	64	63	72	98	96	73	33	48	31	38	38	66	
FORDHAM UNIVERSITY N Y	1958-60	77	52	66	57	76	51	84	23	52	43	32	20	28	32	44	31	16	21	27	21	4	31	38	38	52	
	1961-63	88	76	56	63	86	48	79	45	42	55	47	19	29	47	52	48	32	15	36	8	5	36	48	48	52	
	1964-66	101	90	57	79	106	57	94	100	78	26	86	48	39	35	58	64	56	26	43	9	7	38	48	48	56	
TENNESSEE, UNIVERSITY OF	1958-60	50	47	36	45	60	51	51	36	45	9	60	48	28	61	73	49	76	41	57	27	48	31	38	38	34	
	1961-63	55	46	36	63	61	48	64	33	37	17	25	48	28	61	73	49	76	41	57	27	48	31	38	38	34	
	1964-66	61	52	50	63	55	43	30	33	63	26	21	55	39	40	52	73	72	55	66	33	48	31	38	38	34	
BROWN UNIVERSITY R I	1958-60	9	36	49	57	50	51	60	86	61	43	47	62	23	41	62	59	37	25	22	27	13	31	38	38	101	
	1961-63	18	28	47	63	50	48	67	56	42	58	70	51	29	47	44	56	36	27	19	20	15	36	48	48	101	
	1964-66	13	25	44	53	51	53	64	54	27	58	68	60	39	35	44	61	41	33	33	33	38	48	48	48	101	
COLORADO STATE COLLEGE	1958-60	77	81	116	57	76	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	10	
	1961-63	88	98	136	63	86	48	79	117	118	58	92	104	28	63	84	71	85	79	66	33	48	31	38	38	10	
	1964-66	101	120	148	79	106	57	94	136	126	58	109	105	39	69	93	72	98	96	73	33	48	31	38	38	10	
TEXAS A & M UNIVERSITY	1958-60	73	59	77	20	44	15	18	28	23	23	66	88	28	61	55	59	76	76	57	27	48	31	38	38	101	
	1961-63	88	75	80	15	37	20	79	19	30	9	51	104	29	63	49	71	85	79	66	33	48	31	38	38	101	
	1964-66	92	41	55	16	25	14	41	16	32	19	51	117	39	69	44	72	98	96	73	33	48	31	38	38	101	
VIRGINIA, UNIVERSITY OF	1958-60	35	21	49	57	66	51	84	99	68	43	60	71	28	61	26	43	23	48	43	27	22	28	38	38	43	
	1961-63	59	22	52	63	59	48	80	95	83	55	42	84	29	63	22	23	22	54	54	29	27	36	48	48	43	
	1964-66	53	41	71	79	69	47	80	100	83	58	75	93	39	69	27	16	31	34	55	39	45	38	48	48	43	
CONNECTICUT, UNIVERSITY OF	1958-60	77	54	59	57	76	51	14	76	45	43	51	36	28	55	62	59	76	76	57	27	48	31	38	30	26	
	1961-63	88	48	74	63	68	46	12	95	50	36	92	39	29	63	66	62	85	66	66	33	48	31	38	30	26	
	1964-66	101	63	78	79	55	44	23	56	48	58	86	38	39	56	73	72	98	25	31	39	48	31	38	30	26	
CALIF, UNIV OF, DAVIS	1958-60	77	81	62	57	76	20	14	9	11	43	51	88	28	61	73	59	76	76	57	27	48	31	38	38	101	
	1961-63	88	98	65	61	24	14	7	8	2	34	20	104	29	63	84	71	85	79	66	33	48	31	38	38	101	
	1964-66	82	105	50	79	67	14	15	7	2	14	20	117	39	69	93	72	98	96	73	33	48	31	38	38	101	
NOTRE DAME, UNIV OF, IND	1958-60	35	33	19	57	54	41	84	76	102	43	84	88	28	32	55	31	37	40	57	27	10	31	38	38	86	
	1961-63	25	36	33	63	57	48	79	78	74	36	60	104	29	22	52	62	56	23	66	33	10	36	48	48	86	
	1964-66	26	40	21	79	55	57	80	83	48	26	96	117	39	46	59	40	26	73	39	4	38	48	48	48	86	
WASHINGTON UNIVERSITY MO	1958-60	64	36	70	45	37	51	60	68	61	43	35	48	20	47	73	59	76	54	43	21	44	31	29	38	71	
	1961-63	83	38	69	31	33	48	79	95	83	55	17	65	29	42	74	32	74	45	36	33	53	36	29	38	71	
	1964-66	45	48	86	37	47	57	55	74	90	58	41	34	39	46	67	49	84	62	47	39	50	38	29	38	71	
N C STATE UNIV AT RALEIGH	1958-60	30	75	107	57	42	12	44	31	20	23	51	88	28	61	30	59	76	76	57	27	48	31	38	38	101	
	1961-63	32	58	109	63	40	11	79	45	19	36	70	104	29	55	26	71	85	79	66	33	53	36	42	40	101	
	1964-66	24	77	139	71	30	8	94	47	15	14	55	117	39	69	20	72	98	96	73	33	48	31	38	38	101	
WASHINGTON STATE UNIV	1958-60	77	66	85	51	76	13	34	76	29	23	38	59	28	24	73	59	76	76	57	27	48	31	38	38	53	
	1961-63	71	76	80	63	86	16	34	78	39	25	38	50	29	30	74	71	85	79	66	33	53	36	42	40	53	
	1964-66	68	71	50	63	102	22	27	94	30	26	31	72	39	40	68	72	76	81	73	39	64	38	48	48	53	
VANDERBILT UNIV TENN	1958-60	64	33	55	57	76	51	60	63	83	43	66	62	28	47	38	49	29	19	57	27	48	31	38	38	101	
	1961-63	83	63	50	63	80	48	56	61	65	55	64	33	29	42	49	62	41	32	46	33	53	36	42	40	101	
	1964-66	74	35	71	79	67	57	55	52	90	55	62	43	39	56	36	42	48	29	55	26	16	38	48	48	101	
TEMPLE UNIVERSITY PA	1958-60	77	47	84	57	76	51	44	68	83	43	84	43	28	61	73	59	76	76	57	27	48	31	38	38	30	
	1961-63	88	53	52	63	86	48	34	85	98	55	92	46	29	63	41	71	85	79	66	33	53	36	42	40	37	
	1964-66	101	63	71	79	106	57	25	83	90	58	109	48	39	69	93	72	98	96	73	33	48	31	38	38	37	
TULANE UNIV OF LOUISIANA	1958-60	45	81	56	57	76	51	35	59	29	43	38	73	28	47	62	49	53	41	23	27	34	31	38	38	101	
	1961-63	32	98	77	63	86	48	10	38	42	55	98	81	29	55	59	37	29	31	30	33	30	29	42	40	101	
	1964-66	49	84	78	71	74	57	17	33	35	58	36	79	17	52	30	49	45	23	23	32	24	23	37	48	101	
POLYTECH INST OF BROOKLYN	1958-60	77	54	16	57	15	51	84	99	102	43	84	88	28	61	73	59	76	76	57	27	48	31	38	38	101	
	1961-63	88	63	12	63	15	48	79	117	118	58	92	104	29	63	84	71	85	79	66	33	53	36				

TABLE 3
(continued)

Rank, by Doctorate Output, of Institution by Field of Doctorate

100 Leading Doctorate-Granting Institutions (based on total doctorates granted FY 1958 - 1966)	Year of Doctorate	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM., BIOPHYS., PHYSIOL., BIostatist	ANAT., CYTOL., ENTOMOL., GENET., MICROBIOL., EMBRYOL.	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	PSYCHOLOGY	ANTHROPOLOGY, ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
CASE INSTITUTE OF TECH OHIO	1958-60 1961-63 1964-66	35 32 32	31 20 28	39 60 69	57 63 79	26 18 21	51 28 21	84 79 94	99 117 136	102 126 126	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120	
CINCINNATI UNIVERSITY OF	1958-60 1961-63 1964-66	45 53 53	59 58 53	53 39 33	36 63 37	66 48 62	51 28 20	99 136 83	102 126 83	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
GEO PEARBODY COL FOR TEACH TENN	1958-60 1961-63 1964-66	58 78 85	116 128 148	57 76 106	51 84 79	51 84 79	51 84 79	99 117 136	102 126 126	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
KANSAS ST UNIV OF AG & AP SCI	1958-60 1961-63 1964-66	77 88 101	72 88 77	62 79 34	57 76 79	76 84 59	24 35 16	35 68 67	9 14 19	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
GEORGETOWN UNIVERSITY D C	1958-60 1961-63 1964-66	77 88 92	75 88 63	91 95 95	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
KENTUCKY UNIVERSITY OF	1958-60 1961-63 1964-66	58 59 85	75 68 77	49 98 121	57 66 79	66 80 106	33 33 33	84 79 99	99 117 99	57 62 99	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	101 108 120		
RICE UNIVERSITY TEX	1958-60 1961-63 1964-66	42 49 66	18 38 33	66 91 61	25 44 12	48 57 38	51 84 57	84 99 78	59 68 78	68 83 99	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	101 108 120		
AMERICAN UNIVERSITY D C	1958-60 1961-63 1964-66	64 78 92	81 98 120	116 136 148	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
ARKANSAS UNIVERSITY OF	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
ILLINOIS INST OF TECHNOLOGY	1958-60 1961-63 1964-66	35 42 42	47 58 59	56 65 57	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
ALABAMA UNIVERSITY OF	1958-60 1961-63 1964-66	77 71 78	66 68 67	88 102 121	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
GEORGIA UNIVERSITY OF	1958-60 1961-63 1964-66	64 66 64	81 98 105	116 124 97	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
GEO WASHINGTON UNIVERSITY D C	1958-60 1961-63 1964-66	35 42 42	81 98 105	116 124 97	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
DELAWARE UNIVERSITY OF	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
LEHIGH UNIVERSITY PA	1958-60 1961-63 1964-66	50 59 68	43 48 67	75 72 84	42 29 45	29 45 42	39 39 39	84 79 99	68 117 107	68 83 107	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	101 108 120		
VIRGINIA POLY- TECHNIC INST	1958-60 1961-63 1964-66	20 25 26	81 98 105	90 102 118	33 44 53	44 57 62	39 39 39	84 79 99	68 117 107	68 83 107	43 58 58	84 102 109	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	101 108 120		
LOYOLA UNIVERSITY ILL	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
HOUSTON UNIVERSITY OF	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
NEW MEXICO UNIVERSITY OF	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
EMORY UNIVERSITY GA	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
BRANDEIS UNIV MASS	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
YESSIVA UNIVERSITY N Y	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
WYOMING UNIVERSITY OF	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
CLAREMONT GRAD UNIV CAL	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		
MASSACHUSETTS UNIVERSITY OF	1958-60 1961-63 1964-66	77 88 101	81 98 90	81 74 65	57 76 79	76 84 106	51 24 27	83 43 40	83 84 74	43 58 58	47 62 62	88 104 105	28 39 39	61 63 64	73 84 85	59 71 72	76 80 80	76 79 79	57 66 73	27 39 39	48 63 64	31 36 38	38 48 48	38 48 48	101 108 120		

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Appendix A of this report lists each United States institution that has granted a research doctorate since 1920 and shows the doctoral production of that institution by field for the over-all time period 1920-1966 and for the recent period 1960-1966.

In addition to quantitative measures of doctoral output, there has developed a growing demand for some "quality" rating of graduate departments. No universally accepted quality metric has yet been devised, but some studies have been made to develop rating scales. One of the best known was recently reported by Allan Cartter.⁶ One part of the Cartter report ranks institutions in each of 29 academic fields on "rated effectiveness of graduate program." The two highest rating groups are titled "Extremely Attractive" and "Attractive." Ten of the Cartter fields were identical in title with the field titles of Table 3 above. The ranks in Table 3 have been compared with the Cartter ranks to determine the degree to which they coincide.

Field Appearing in Both Lists	Number of Doctoral Institutions in Field 1960-66	From Cartter List: Number of Departments Rated Extremely Attractive or Attractive	From Table 3: Largest Doctorate- Granting	
			Institutions, by Field; Matched Number with Cartter List	Number of Institutions in Both Cartter List and Table 3, % Coincidence
Anthropology	39	11	11	(10 of 11) 91
Mathematics	103	20	20	(16 of 20) 80
Physics	124	19	19	(15 of 19) 79
History	102	19	19	(14 of 19) 74
Chemistry	153	23	23	(15 of 23) 65
Sociology	73	14	14	(9 of 14) 64
Political Science	77	16	16	(10 of 16) 62
Economics	95	15	15	(9 of 15) 60
Psychology	119	23	23	(13 of 23) 56
Philosophy	68	11	11	(5 of 11) 45

The Cartter report rated 11 graduate departments of anthropology as Extremely Attractive or Attractive out of a total of 39 doctorate-granting departments. When compared with the 11 highest-output anthropology institutions from Table 3, 10 appeared on both lists for a 91 percent overlap. In all, 171 institutions were compared in this manner; 116 (68 percent) appeared on both the Cartter list and the selection of top-ranked institutions from Table 3. Of those that were on the Cartter list, but were not rated as highly in Table 3, 71 percent were private institutions; conversely, 62 percent of those in Table 3, but not on Cartter's list, were public institutions.

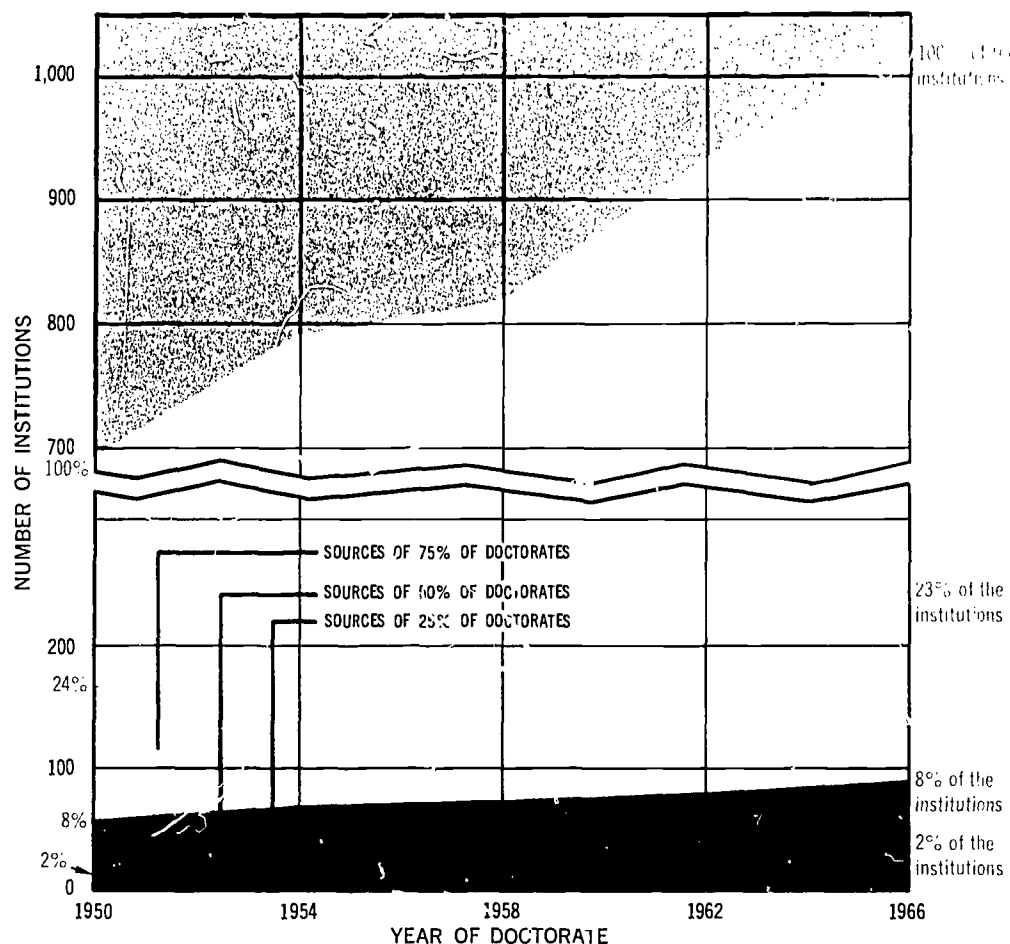
Baccalaureate-Source Institutions

A "baccalaureate-source institution" is one that granted a baccalaureate to one or more persons who later received a research doctorate at either that same institution or a different one.

Figure 5 shows that the number of baccalaureate-source institutions has been increasing rapidly between 1950 and 1966. The trends for the baccalaureate-source institutions (Figure 5) are very similar to those for the doctoral institutions (Figure 4). The total number of source institutions increased about 50 percent during the period, and the number of such institutions that supplied a given percent (25, 50, 75 percent) of all baccalaureates who later achieved doctorates also increased about 50 percent. As a result, the percentage of in-

6. Allan M. Cartter, An Assessment of Quality in Graduate Education, American Council on Education, Washington, D.C. (1966).

FIGURE 5
NUMBER OF U.S. INSTITUTIONS
THAT WERE BACCALAUREATE
SOURCES OF 25%, 50%, AND 75%
OF ALL DOCTORATES, 1950-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.
 For historical data, see p. 32 of NAS-NRC Publication 1142.

stitutions supplying a given percentage of these baccalaureates has remained almost constant. Two percent of the institutions supply 25 percent of the baccalaureates who later receive doctorates; eight percent of the institutions supply 50 percent of the baccalaureates; and twenty-three to twenty-four percent supply 75 percent. As the total number of baccalaureate-source institutions increases, there is a corresponding increase in the number of high-producer centers.

Table 4 lists the leading 100 baccalaureate-source institutions for those persons who received doctorates between FY 1958 and FY 1966. Comparison of Table 4 with Table 3 reveals great overlap. Of the top 30 baccalaureate-source institutions, 24 are also among the top 30 doctorate-granting institutions.

The listing in Table 4 may be compared with a similar listing in the preceding book of this series.⁷ Of the top 20 institutions in the 1950-1966 period, 14 were also among the top 20 of the baccalaureate sources for the 1920-1929 period. However, the 100 institutions in Table 4 accounted for only 56 percent of the 1958-1966 eventual doctorate recipients; the leading 100 institutions of 1920-1929 were the baccalaureate sources of 71 percent of the doctorates of that period.

7. NAS-NRC, Publ. 1142, *op. cit.*, p. 31.

TABLE 4

One Hundred Leading Baccalaureate Source Institutions of Doctorate Recipients,
FY 1958 - 1966

Leading Baccalaureate Source Institutions	Rank of Institution as Bacc Source	Doctorate Recipients with Bacc from Inst	
		N	%
Alabama, University of	76	282	.29
Amherst College, Mass	78	271	.26
Arizona, University of	88	248	.26
Arkansas, University of	71	307	.32
Auburn University, Ala	87	253	.26
Baylor University, Texas	97	230	.24
Boston University	46	409	.42
Brigham Young Univ, Utah	35	502	.52
Brooklyn College	9	1,233	1.27
Brown University, R.I.	63	349	.36
Buffalo, State Univ of N Y	82	259	.27
California Inst of Tech	42	427	.44
California, Univ of, Berkeley	1	1,837	1.89
California, Univ of, Los Angeles	10	1,227	1.26
Carnegie Inst of Tech, Pa	43	424	.44
Case Inst of Tech, Ohio	83	258	.27
Chicago, University of	13	1,107	1.14
Cincinnati, University of	70	311	.32
City Col of City Univ of N Y	2	1,826	1.88
Colorado State University	79	270	.28
Colorado, University of	38	487	.50
Columbia University, N Y	14	1,012	1.04
Connecticut, University of	65	338	.35
Cornell University	12	1,169	1.20
Dartmouth College, N H	47	399	.41
Denver, University of	94	234	.24
Duke University, N C	64	340	.35
Florida, University of	39	472	.49
Fordham University, N Y	68	320	.33
George Washington Univ, D C	85	254	.26
Georgia Inst of Tech	91	246	.25
Georgia, University of	75	292	.30
Harvard University	4	1,432	1.48
Hunter College, N Y	61	356	.37
Illinois Inst of Tech	92	240	.25
Illinois, University of	3	1,609	1.66
Indiana University	35	502	.52
Iowa State Univ of Sci and Tech	23	678	.70
Iowa, University of	34	514	.53
Johns Hopkins Univ, Md	67	324	.33
Kansas, University of	41	445	.46
Kansas State Univ of Agr and Appl Sci	50	390	.40
Kentucky, University of	66	333	.34
Lehigh University, Pa	38	248	.26
Louisiana State Univ and Agr and Mechan College	52	386	.40
Maryland, University of	45	417	.43
Massachusetts Inst of Tech	6	1,353	1.39
Massachusetts, University of	73	295	.30
Miami University, Ohio	90	247	.25
Miami, University of	96	231	.24
Michigan State University	22	684	.71
Michigan, University of	7	1,341	1.38
Minnesota, University of	8	1,336	1.38

TABLE 4
(continued)

Leading Baccalaureate Source Institutions	Rank of Institution as Bacc Source	Doctorate Recipients with Bacc from Inst	
		N	%
Missouri, University of, Columbia	28	575	.59
Nebraska, University of	31	531	.55
New Hampshire, University of	98	228	.24
New York University	11	1,170	1.21
North Carolina State Univ at Raleigh	98	228	.24
North Carolina, University of	54	379	.39
North Texas State University	77	277	.29
Northwestern Univ, Illinois	27	634	.65
Notre Dame, Univ of, Indiana	49	392	.40
Oberlin College, Ohio	32	527	.54
Ohio State University	15	939	.97
Ohio University	100	227	.23
Oklahoma State Univ of Agr and Appl Sci	33	525	.54
Oklahoma, University of	40	459	.47
Oregon State University	59	361	.37
Oregon, University of	80	268	.28
Pennsylvania State University	19	867	.89
Pennsylvania, University of	29	559	.58
Pittsburgh, University of	51	387	.40
Polytechnic Institute of Brooklyn	81	265	.27
Princeton University	23	678	.70
Purdue University	18	872	.90
Queens College, N Y	58	367	.38
Rensselaer Poly Inst, N Y	44	420	.43
Rice University, Texas	69	319	.33
Rochester, University of	54	379	.39
Rutgers, The State Univ, N J	26	650	.67
Southern California, Univ of	56	377	.39
Stanford University, Calif	21	688	.71
Swarthmore College, Pa	61	356	.37
Syracuse University	37	497	.51
Temple University, Pa	48	398	.41
Tennessee, University of	74	294	.30
Texas A & M University	57	370	.38
Texas Technological College	94	234	.24
Texas, University of	16	895	.92
Tufts University, Mass	92	240	.25
Utah State Univ of Agr and Appl Sci	53	385	.40
Utah, University of	25	653	.67
Washington State University	72	296	.31
Washington University, Mo	60	359	.37
Washington, University of, Wash	20	740	.76
Wayne State University, Mich	30	540	.56
West Virginia University	85	254	.26
Western Reserve Univ, Ohio	83	258	.27
Wisconsin, University of	5	1,355	1.40
Yale University	17	874	.90

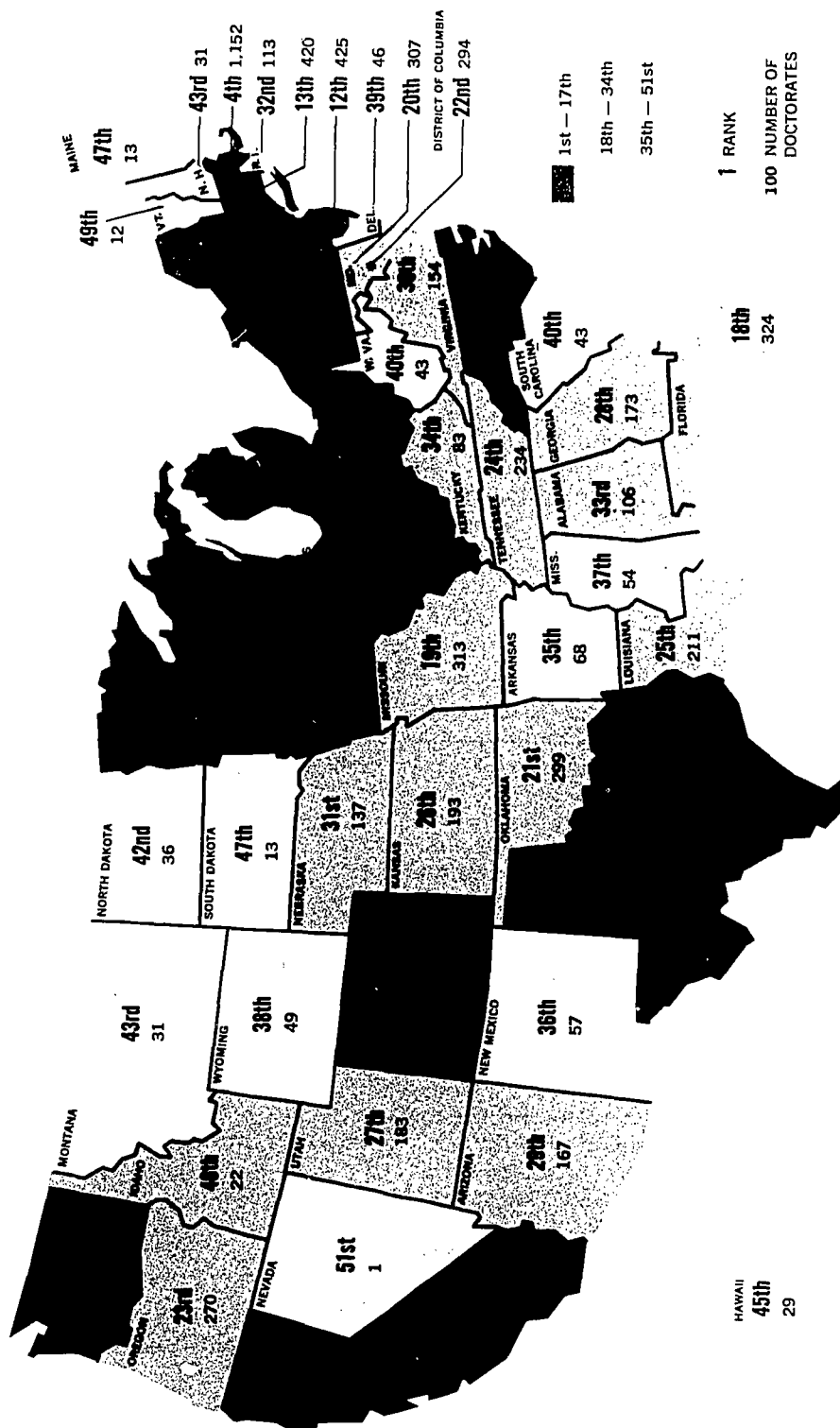
Note: Tie ranks are all given highest rank.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.
For historical data see p. 31 of Publ. 1142.

FIGURE 6
NUMBER OF DOCTORATES GRANTED IN EACH
STATE AND THE RANK OF THE STATES,
FY 1966.

ALASKA

50th
3



HAWAII
45th
29

Source: NRC, Office of Scientific Personnel, Doctorate Records File.
For historical data, see p. 14 of NAS-NRC Publication 1142.

Appendix B of this report lists each United States college or university that has been a baccalaureate source for at least one doctorate recipient since 1920 and shows the production of the institution by doctoral field for the periods 1920-1966 and 1960-1966.

Appendix C shows the relation between the baccalaureate institutions and doctoral institutions. It lists the 300 leading baccalaureate-source institutions for the leading 40 doctorate-granting institutions.

DOCTORATES GRANTED BY STATE

Figure 6 shows the number of persons receiving doctoral degrees from universities in each state of the United States during FY 1966. The figure indicates also each state's rank in numbers of doctorates granted during that year. Similar data for 1950 and 1958 were analyzed, but because most of the states' ranks were remarkably stable for 1950, 1958, and 1966, only the 1966 statistics are displayed in Figure 6. However, three states did show marked gains in relative rank from 1950 to 1966, and two suffered marked declines. (Arizona climbed from 38 to 29; Florida from 31 to 18; Texas from 18 to 8. The District of Columbia fell from 14 to 22 and Virginia from 22 to 30.)

Five states—New York, California, Illinois, Massachusetts, and Pennsylvania—have maintained leadership in numbers of doctorates granted. In 1950, these five accounted for 52 percent of all doctorates; in 1958 they accounted for 48 percent; and in 1966 for 41 percent.

Per capita doctoral production data (doctorates granted in state/population of same state) are not included in this book because they tend to be misleading. Only a minority of the persons receiving doctorates in a state are natives of that state in the sense that they went to high school there. Therefore, a ratio of 2:10,000 would not mean necessarily that 2 persons per 10,000 of that state's population received doctorates. Details on this point will be presented shortly with Table 6.

There is a strong relation between the amount of money spent on all higher education in a state and the number of doctorates that are granted in that state. Figure 7 (p. 32) shows this relation. The money spent per state includes funds from state, federal, and other sources. As a rough approximation, a state produces one doctorate for each \$300,000 it devotes to its higher education operation. The state, of course, receives many returns from this investment in addition to the doctorate.

Doctorates by Field, by State

Not only do states vary in the total number of doctorates granted in the state, but they vary considerably in the doctoral fields of the graduates. Table 5 shows the number of doctorate recipients by field for FY 1966 for each state. A percentage distribution by field for each state is included.

In general, states that are high producers of doctorates tend to have a field distribution similar to the national average. (Compare statistics for the five highest-ranked states with the national totals.) States that produce fewer doctorates tend to place heavier emphasis on the natural sciences and to slight the social sciences, arts and humanities, and professions. (Compare data for the 10 lowest-ranked states with the national totals.)

TABLE 5

Doctorates Granted, by State and Field of Doctorate, FY 1966

State of Doctorate-Granting Institution	Field of Doctorate																			
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	
<u>U.S. TOTAL</u>	N %	6,377 34.02	766 4.29	1,049 5.87	161 .90	295 1.65	1,580 8.84	641 3.59	425 2.38	399 2.23	2,283 12.78	362 2.03	469 2.63	2,869 16.06	572 3.20	316 1.77	804 4.50	659 3.69	46 .26	472 2.64
<u>NEW ENGLAND</u>	N %	693 39.80	87 5.00	159 9.13	33 1.90	29 1.67	173 9.94	77 4.42	49 2.81	38 2.18	236 13.56	34 1.95	42 2.41	193 11.09	11 .63	25 1.44	91 5.23	34 1.95	— —	32 1.84
Maine	N %	4 30.77	— —	— —	— —	— —	3 23.08	3 23.08	— —	— —	1 7.69	1 7.69	— —	4 30.77	3 23.08	— —	1 7.69	— —	— —	— —
New Hampshire	N %	16 51.61	5 16.13	2 6.45	— —	— —	8 25.81	5 16.13	2 6.45	— —	1 3.23	1 3.23	— —	15 48.39	3 9.68	— —	— —	1 3.23	— —	11 35.48
Vermont	N %	8 66.67	— —	— —	— —	— —	8 66.67	5 41.67	3 25.00	— —	— —	— —	— —	4 33.33	— —	1 8.33	2 16.67	— —	— —	1 8.33
Massachusetts	N %	483 41.93	57 4.95	102 8.85	25 2.17	19 1.65	106 9.20	49 4.25	28 2.43	29 2.52	189 16.41	24 2.08	37 3.21	96 8.33	2 .17	9 .78	60 5.21	14 1.22	— —	11 .95
Rhode Island	N %	65 57.52	14 12.39	16 14.16	3 2.65	6 5.31	12 10.62	3 2.65	1 .88	7 6.19	16 14.16	2 1.77	1 .88	18 15.93	— —	2 1.77	4 3.54	7 6.19	— —	6 4.42
Connecticut	N %	117 27.86	11 2.62	39 9.29	5 1.19	4 .95	36 8.57	12 2.86	15 3.57	2 .48	29 6.90	6 1.43	4 .95	56 13.33	3 .71	13 3.10	24 5.71	12 2.86	— —	4 .95
<u>MIDDLE ATLANTIC</u>	N %	1,213 36.04	141 4.19	244 7.25	38 1.13	69 2.05	296 8.79	121 3.59	91 2.70	57 1.69	475 14.11	84 2.50	125 3.71	411 12.21	66 1.96	37 1.10	121 3.59	113 3.36	5 .15	69 2.05
New York	N %	626 31.21	79 3.94	129 6.43	14 .70	32 1.60	148 7.38	58 2.89	41 2.04	26 1.30	244 12.16	33 1.65	65 3.24	243 12.11	42 2.09	15 .75	71 3.54	65 3.24	3 .15	47 2.34
New Jersey	N %	199 46.82	34 8.00	39 9.18	13 3.06	6 1.41	49 11.53	23 5.41	21 4.94	8 1.88	69 16.24	26 6.12	11 2.59	60 14.12	13 3.06	1 .24	15 3.53	19 4.47	1 .24	11 2.59
Pennsylvania	N %	388 41.50	28 2.99	76 8.13	11 1.18	31 3.32	99 10.59	40 4.28	29 3.10	23 2.46	162 17.33	25 2.67	49 5.24	108 11.55	11 1.18	21 2.25	35 3.74	29 3.10	1 .11	11 1.18
<u>EAST NORTH CENTRAL</u>	N %	1,326 31.99	159 3.84	176 4.25	27 .65	68 1.64	392 9.46	157 3.79	93 2.24	68 1.64	531 12.81	74 1.79	113 2.73	671 16.19	159 3.84	95 2.29	156 3.76	155 3.74	17 .41	89 2.15
Ohio	N %	233 36.81	25 3.95	36 5.69	— —	12 1.90	81 12.80	38 6.00	18 2.84	10 1.58	81 12.80	13 2.05	19 3.00	86 13.59	15 2.37	12 1.90	22 3.48	25 3.95	— —	12 1.90
Indiana	N %	258 31.39	25 3.04	38 4.62	7 .85	19 2.31	82 9.98	34 4.14	13 1.58	7 .85	106 12.90	12 1.46	22 2.68	142 17.27	36 4.38	15 1.82	30 3.65	38 4.62	10 1.22	13 1.58
Illinois	N %	440 36.18	58 4.77	59 4.85	9 .74	31 2.55	106 8.72	34 2.80	30 2.47	23 1.89	194 15.95	26 2.14	40 3.29	169 13.90	25 2.06	27 2.22	50 4.11	41 3.37	4 .33	22 1.81
Michigan	N %	228 25.08	31 3.41	18 1.98	3 .33	2 .22	56 6.16	24 2.64	8 .88	16 1.76	107 11.77	11 1.21	24 2.64	137 15.07	38 4.18	22 2.42	27 2.97	25 2.75	2 .22	23 2.53
Wisconsin	N %	167 29.56	20 3.54	25 4.42	8 1.42	4 .71	67 11.86	27 4.78	24 4.25	12 2.12	43 7.61	12 2.12	8 1.42	137 24.25	45 7.96	19 3.36	27 4.78	26 4.60	1 .18	19 3.36

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
2,666 14.92	1,133 6.34	109 .61	258 1.44	622 3.48	401 2.24	2,497 13.98	644 3.60	666 3.73	478 2.68	71 .40	199 1.11	240 1.34	176 .99	730 4.09	370 2.07	188 1.05	3,026 16.94	17,865 100.01	N %	<u>U.S. TOTAL</u>
315 18.09	108 6.20	19 1.09	29 1.67	91 5.23	55 3.16	322 18.50	92 5.28	75 4.31	77 4.42	20 1.15	32 1.84	5 .29	21 1.21	97 5.57	28 1.61	58 3.33	121 6.95	1,741 100.00	N %	<u>NEW ENGLAND</u>
2 15.38	2 15.38	—	—	—	—	3 23.08	3 23.08	—	—	—	—	—	—	—	—	—	—	13 100.00	N %	Maine
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31 100.00	N %	New Hampshire
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12 100.00	N %	Vermont
218 18.92	72 6.25	17 1.48	16 1.39	64 5.56	36 3.13	193 16.75	63 5.47	40 3.47	43 3.73	15 1.30	15 1.30	—	17 1.48	71 6.16	28 2.43	37 3.21	91 7.90	1,152 99.99	N %	Massachusetts
18 15.93	7 6.19	—	4 3.54	3 2.65	4 3.54	10 8.85	4 3.54	3 2.65	2 1.77	—	1 .88	—	—	2 1.77	—	2 1.77	—	113 100.00	N %	Rhode Island
77 18.33	27 6.43	2 .48	9 2.14	24 5.71	15 3.57	116 27.62	22 5.24	32 7.62	32 7.62	5 1.19	16 3.81	5 1.19	4 .95	24 5.71	—	19 4.52	30 7.14	420 99.99	N %	Connecticut
533 15.83	231 6.86	20 .59	45 1.34	110 3.27	96 2.85	500 14.85	131 3.89	142 4.22	78 2.32	21 .62	63 1.87	19 .53	39 1.16	137 4.07	49 1.46	46 1.37	572 16.99	3,366 99.99	N %	<u>MIDDLE ATLANTIC</u>
355 17.70	164 8.18	10 .50	34 1.69	63 3.14	72 3.59	326 16.25	93 4.64	89 4.44	52 2.59	17 .85	42 2.09	7 .35	22 1.10	82 4.09	41 2.04	17 .85	374 18.64	2,006 100.00	N %	New York
52 12.24	22 5.18	—	2 .47	15 3.53	13 3.06	52 12.24	16 3.76	10 2.35	10 2.35	1 .24	3 .71	—	11 2.59	25 5.88	—	20 4.71	37 8.71	425 100.01	N %	New Jersey
126 13.48	45 4.81	10 1.07	9 .96	32 3.42	11 1.18	122 13.05	22 2.35	43 4.60	16 1.71	3 .32	18 1.93	12 1.28	6 .64	30 3.21	8 .86	9 .96	161 17.22	935 100.01	N %	Pennsylvania
615 14.84	267 6.44	30 .72	65 1.57	142 3.43	68 1.64	618 14.91	119 2.87	160 3.66	118 2.85	12 .29	35 .84	118 2.85	44 1.06	186 4.49	112 2.70	30 .72	729 17.59	4,145 100.01	N %	<u>EAST NORTH CENTRAL</u>
75 11.85	38 6.00	1 .16	8 1.26	19 3.00	—	72 11.37	15 2.37	15 2.37	12 1.90	4 .63	3 .47	19 3.00	3 .47	31 4.90	15 2.37	7 1.11	136 21.48	633 100.00	N %	Ohio
94 11.44	41 4.99	—	12 1.46	29 3.53	12 1.46	111 13.50	18 2.19	19 2.31	31 3.77	—	5 .61	23 2.80	14 1.70	41 4.99	32 3.89	3 .36	176 21.41	822 100.00	N %	Indiana
188 16.28	85 6.99	15 1.23	20 1.64	31 2.55	29 2.38	179 14.72	32 2.63	48 3.95	31 2.55	6 .49	14 1.15	32 2.63	15 1.23	65 5.35	34 2.80	20 1.64	165 13.57	1,216 100.00	N %	Illinois
170 18.70	81 8.91	10 1.10	14 1.54	33 3.63	21 2.31	146 16.06	19 2.09	41 4.51	34 3.74	—	6 .66	29 3.19	11 1.21	37 4.07	25 2.75	—	191 21.01	909 99.99	N %	Michigan
78 13.81	22 3.89	4 .71	11 1.95	30 5.31	6 1.06	110 19.47	35 6.19	37 6.55	10 1.77	2 .35	7 1.24	15 2.65	1 .18	12 2.12	6 1.06	—	61 10.80	565 100.01	N %	Wisconsin

TABLE 5
(continued)

State of Doctorate-Granting Institution	Field of Doctorate																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
WEST NORTH CENTRAL	N	442	54	46	2	12	150	60	29	30	162	30	20	360	103	58	82	64	2	51
	%	29.12	3.56	3.03	.13	.79	9.88	3.95	1.91	1.98	10.67	1.98	1.91	23.72	6.79	3.82	5.40	4.22	.13	3.36
Minnesota	N	106	14	8	—	1	28	10	6	8	48	11	15	109	31	31	23	19	1	4
	%	26.84	3.54	2.03	—	.25	7.09	2.53	1.52	2.03	12.15	2.78	3.80	27.59	7.85	7.85	5.82	4.81	.25	1.01
Iowa	N	155	17	18	1	5	47	23	6	6	67	9	8	93	35	11	21	13	—	13
	%	35.96	3.94	4.18	.23	1.16	10.90	5.34	1.39	1.39	15.55	2.09	1.86	21.58	8.12	2.55	4.87	3.02	—	3.02
Missouri	N	71	12	14	1	5	11	4	3	11	23	4	4	70	19	6	23	7	1	14
	%	22.68	3.83	4.47	.32	1.60	3.51	1.28	.96	3.51	7.35	1.28	1.28	22.36	6.07	1.92	7.35	2.24	.32	4.47
North Dakota	N	7	—	—	—	—	5	1	3	2	—	—	—	9	1	1	5	2	—	—
	%	19.44	—	—	—	—	13.89	2.78	8.33	5.56	—	—	—	25.00	2.78	2.78	13.89	5.56	—	—
South Dakota	N	—	—	—	—	—	—	—	—	—	—	—	—	4	1	—	2	—	—	1
	%	—	—	—	—	—	—	—	—	—	—	—	—	30.77	7.69	—	15.38	—	—	7.69
Nebraska	N	24	7	2	—	—	11	7	3	1	3	—	—	26	8	2	3	7	—	6
	%	17.52	5.11	1.46	—	—	8.03	5.11	2.19	.73	2.19	—	—	18.98	5.84	1.46	2.19	5.11	—	4.38
Kansas	N	79	4	4	—	1	48	15	8	2	21	6	2	49	8	7	5	16	—	13
	%	40.93	2.07	2.07	—	.52	24.87	7.77	4.15	1.04	10.88	3.11	1.04	25.39	4.15	3.63	2.59	8.29	—	6.74
SOUTH ATLANTIC	N	582	86	127	11	39	153	62	32	19	197	46	30	336	65	34	82	97	6	52
	%	32.28	4.77	7.04	.61	2.16	8.49	3.44	1.77	1.05	10.93	2.55	1.66	18.64	3.61	1.89	4.55	5.38	.33	2.88
Delaware	N	33	—	3	—	2	15	3	—	—	15	8	—	5	—	1	1	—	—	3
	%	71.74	—	6.52	—	4.35	32.61	6.52	—	—	32.61	17.39	—	10.87	—	2.17	2.17	—	—	6.52
Maryland	N	123	18	41	7	10	23	9	4	2	39	8	10	73	8	8	25	27	1	4
	%	40.07	5.86	13.36	2.28	3.26	7.49	2.93	1.30	.65	12.70	2.61	3.26	23.78	2.61	2.61	8.14	8.79	.33	1.30
District of Columbia	N	48	4	16	1	5	18	6	8	—	10	—	2	35	—	4	12	16	—	3
	%	16.33	1.36	5.44	.34	1.70	6.12	2.04	2.72	—	3.40	—	.68	11.90	—	1.36	4.08	5.44	—	1.02
Virginia	N	76	19	14	—	8	11	6	2	3	29	5	1	27	9	2	7	3	—	6
	%	49.35	12.34	9.09	—	5.19	7.14	3.90	1.30	1.95	18.83	3.25	.65	17.53	5.84	1.30	4.55	1.95	—	3.90
West Virginia	N	13	—	2	—	—	3	2	1	1	7	1	—	17	2	2	7	5	—	1
	%	30.23	—	4.65	—	—	6.98	4.65	2.33	2.33	16.28	2.33	—	39.53	4.65	4.65	16.28	11.63	—	2.33
North Carolina	N	107	22	25	2	8	25	12	7	2	33	4	4	95	29	13	19	18	2	14
	%	25.54	5.25	5.97	.48	1.91	5.97	2.86	1.67	.48	7.88	.95	.95	22.67	6.92	3.10	4.53	4.30	.48	3.34
South Carolina	N	26	1	6	1	2	13	5	3	1	5	4	—	9	3	1	—	4	—	1
	%	60.47	2.33	13.95	2.33	4.65	30.23	11.63	6.98	2.33	11.63	9.30	—	20.93	6.98	2.33	—	9.30	—	2.33
Georgia	N	59	10	6	—	1	13	7	1	—	30	10	7	35	5	1	6	12	1	10
	%	34.10	5.78	3.47	—	.58	7.51	4.05	.58	—	17.34	5.78	4.05	20.23	2.89	.58	3.47	6.94	.58	5.78
Florida	N	97	12	14	—	3	32	12	6	10	29	6	6	40	9	2	5	12	2	10
	%	29.94	3.70	4.32	—	.93	9.88	3.70	1.85	3.09	8.95	1.85	1.85	12.35	2.78	.62	1.54	3.70	.62	3.09
EAST SOUTH CENTRAL	N	104	6	25	2	4	38	17	7	1	34	13	8	88	20	8	30	16	—	14
	%	21.80	1.26	5.24	.42	.84	7.97	3.56	1.47	.21	7.13	2.73	1.68	18.45	4.19	1.68	6.29	3.35	—	2.94
Kentucky	N	17	1	5	—	—	10	5	3	—	1	1	—	21	6	—	9	2	—	4
	%	20.48	1.20	6.02	—	—	12.05	6.02	3.61	—	1.20	1.20	—	25.30	7.23	—	10.84	2.41	—	4.82

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHI' OSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
215	90	3	25	66	20	178	48	41	18	2	8	42	19	40	23	5	283	1,518	N	WEST NORTH CENTRAL
14.16	5.93	.20	1.65	4.35	1.32	11.73	3.16	2.70	1.19	.13	.53	2.77	1.25	2.64	1.52	.33	18.64	100.01	%	
72	28	3	4	21	10	47	15	13	8	—	—	9	2	14	8	—	47	395	N	Minnesota
18.23	7.09	.76	1.01	5.32	2.53	11.90	3.80	3.29	2.03	—	—	2.28	.51	3.54	2.03	—	11.90	100.00	%	
54	18	—	8	25	1	51	10	10	1	—	3	13	14	11	4	5	67	431	N	Iowa
12.53	4.18	—	1.86	5.80	.23	11.83	2.32	2.32	.23	—	.70	3.02	3.25	2.55	.93	1.16	15.55	100.00	%	
52	28	—	10	10	3	47	17	8	6	2	4	7	3	11	8	—	62	313	N	Missouri
16.61	8.95	—	3.19	3.19	.96	15.02	5.43	2.56	1.92	.64	1.28	2.24	.96	3.51	2.56	—	19.81	99.99	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	36	N	North Dakota
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.56	100.00	%	
1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	8	13	N	South Dakota
7.69	—	—	—	7.69	—	—	—	—	—	—	—	—	—	—	—	—	61.54	100.00	%	
20	8	—	2	6	3	10	4	5	—	—	1	—	—	3	3	—	54	137	N	Nebraska
14.60	5.84	—	1.46	4.38	2.19	7.30	2.92	3.65	—	—	.73	—	—	2.19	2.19	—	39.42	100.01	%	
16	8	—	1	3	3	23	2	5	3	—	—	13	—	1	—	—	25	193	N	Kansas
8.29	4.15	—	.52	1.55	1.55	11.92	1.04	2.59	1.55	—	—	6.74	—	.52	—	—	12.95	100.00	%	
308	109	6	34	66	76	266	97	70	50	6	18	5	19	63	21	32	248	1,803	N	SOUTH ATLANTIC
17.08	6.05	.33	1.89	3.66	4.22	14.75	5.38	3.88	2.77	.33	1.00	.28	1.05	3.49	1.16	1.77	13.75	99.99	%	
4	4	—	—	—	—	4	2	2	—	—	—	—	—	—	—	—	—	46	N	Delaware
8.70	8.70	—	—	—	—	8.70	4.35	4.35	—	—	—	—	—	—	—	—	—	100.01	%	
39	12	1	6	9	9	44	8	11	9	3	6	—	7	—	—	—	28	307	N	Maryland
12.70	3.91	.33	1.95	2.93	2.93	14.33	2.61	3.58	2.93	.98	1.95	—	2.78	—	—	—	9.12	100.00	%	
77	16	5	5	14	32	61	27	7	17	1	6	—	3	32	13	16	41	294	N	District of Columbia
26.19	5.44	1.70	1.70	4.76	10.88	20.75	9.18	2.38	5.78	.34	2.04	—	1.02	10.88	4.42	5.44	13.95	100.00	%	
15	1	—	—	10	4	19	10	6	2	—	1	—	—	2	—	—	15	154	N	Virginia
9.74	.65	—	—	6.49	2.60	12.34	6.49	3.90	1.30	—	.65	—	—	1.30	—	—	9.74	100.00	%	
3	3	—	—	—	—	2	1	—	—	—	—	—	1	—	—	—	8	43	N	West Virginia
6.98	6.98	—	—	—	—	4.65	2.33	—	—	—	—	—	2.33	—	—	—	18.60	99.99	%	
89	29	—	8	28	19	82	28	30	17	2	2	—	3	15	6	9	31	419	N	North Carolina
21.24	6.92	—	1.91	6.68	4.53	19.57	6.68	7.16	4.06	.48	.48	—	.72	3.58	1.43	2.15	7.40	100.00	%	
—	—	—	—	—	—	5	2	3	—	—	—	—	—	—	—	—	3	43	N	South Carolina
—	—	—	—	—	—	11.63	4.65	6.98	—	—	—	—	—	—	—	—	6.98	100.01	%	
14	8	—	2	1	2	21	14	1	3	—	3	—	—	7	—	7	37	173	N	Georgia
8.09	4.62	—	1.16	.58	1.16	12.14	8.09	.58	1.73	—	1.73	—	—	4.05	—	4.05	21.39	100.00	%	
67	36	—	13	4	10	28	5	10	2	—	—	5	5	7	2	—	85	324	N	Florida
20.68	11.11	—	4.01	1.23	3.09	8.64	1.54	3.09	.62	—	—	1.54	1.54	2.16	.62	—	26.23	100.00	%	
63	38	—	4	11	9	49	19	20	4	1	5	—	—	26	11	9	147	477	N	EAST SOUTH CENTRAL
13.21	7.97	—	.84	2.31	1.89	10.27	3.98	4.19	.84	.21	1.05	—	—	5.45	2.31	1.89	30.82	100.00	%	
16	6	—	3	4	3	10	5	5	—	—	—	—	—	1	—	—	18	83	N	Kentucky
19.28	7.23	—	3.61	4.82	3.61	12.05	6.02	6.02	—	—	—	—	—	1.20	—	—	21.69	100.00	%	

TABLE 5
(continued)

State of Doctorate-Granting Institution	Field of Doctorate																			
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIostatist	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY	
Tennessee	N 60 % 25.64	2 .85	18 7.69	1 .43	3 1.28	16 6.84	7 2.99	2 .85	1 .43	23 9.83	9 3.85	4 1.71	30 12.82	3 1.28	5 2.14	15 6.41	3 1.28	— —	4 1.71	
Alabama	N 19 % 17.92	3 2.83	2 1.89	1 .94	1 .94	8 7.55	4 3.77	1 .94	— —	6 5.66	2 1.89	3 2.83	19 17.92	4 3.77	— —	6 5.66	4 3.77	— —	5 4.72	
Mississippi	N 8 % 14.81	— —	— —	— —	— —	4 7.41	1 1.85	1 1.85	— —	4 7.41	1 1.85	1 1.85	18 33.33	7 12.96	3 5.56	— —	7 12.96	— —	1 1.85	
WEST SOUTH CENTRAL	N 473 % 37.16	43 3.38	60 4.71	1 .08	26 2.04	113 8.88	49 3.85	34 2.67	50 3.93	207 16.26	52 4.08	34 2.67	227 17.83	40 3.14	17 1.34	59 4.63	49 3.85	3 .24	59 4.63	
Arkansas	N 14 % 20.59	— —	— —	— —	— —	9 13.24	3 4.41	1 1.47	— —	5 7.35	— —	2 2.94	3 4.41	1 1.47	— —	— —	2 2.94	— —	— —	
Louisiana	N 52 % 24.64	8 3.79	7 3.32	— —	3 1.42	24 11.37	8 3.79	7 3.32	7 3.32	6 2.84	5 2.37	— —	47 22.27	15 7.11	5 2.37	7 3.32	9 4.27	— —	11 5.21	
Oklahoma	N 106 % 35.45	8 2.68	9 3.01	— —	4 1.34	14 4.68	7 2.34	5 1.67	5 1.67	70 23.41	10 3.34	10 3.34	59 19.73	7 2.34	7 2.34	17 5.69	9 3.01	— —	19 6.35	
Texas	N 301 % 43.31	27 3.88	44 6.33	1 .14	19 2.73	66 9.50	31 4.46	21 3.02	38 5.47	126 18.13	37 5.32	22 3.17	118 16.98	17 2.45	5 .72	35 5.04	29 4.17	3 .43	29 4.17	
MOUNTAIN	N 304 % 33.37	41 4.50	40 4.39	2 .22	9 .99	65 7.14	28 3.07	22 2.41	52 5.71	106 11.64	7 .77	23 2.52	111 12.18	35 3.84	5 .55	25 2.74	23 2.52	3 .33	20 2.20	
Montana	N 10 % 32.26	4 12.90	— —	— —	— —	2 6.45	1 3.23	— —	1 3.23	3 9.68	1 3.23	2 6.45	9 29.03	1 3.23	— —	1 3.23	2 6.45	2 6.45	3 9.68	
Idaho	N 12 % 54.55	1 4.55	— —	— —	— —	5 22.73	5 22.73	— —	3 13.64	3 13.64	3 13.64	— —	1 4.55	1 4.55	— —	— —	— —	— —	— —	
Wyoming	N 12 % 24.49	— —	— —	— —	— —	5 10.20	— —	4 8.16	7 14.29	— —	— —	— —	4 8.16	4 8.16	— —	— —	— —	— —	— —	
Colorado	N 105 % 26.18	16 3.99	21 5.24	2 .50	4 1.00	19 4.74	12 2.99	4 1.00	13 3.24	36 8.98	2 .50	6 1.50	36 8.98	8 2.00	3 .75	13 3.24	6 1.50	— —	6 1.50	
New Mexico	N 33 % 57.89	2 3.51	7 12.28	— —	1 1.75	2 3.51	1 1.75	1 1.75	4 7.02	18 31.58	— —	9 15.79	1 1.75	— —	— —	— —	— —	— —	1 1.75	
Arizona	N 64 % 38.32	7 4.19	8 4.79	— —	2 1.20	9 5.39	4 2.40	1 .60	15 8.98	25 14.97	— —	3 1.80	24 14.37	8 4.79	— —	6 3.59	3 1.80	— —	7 4.19	
Utah	N 67 % 36.61	11 6.01	4 2.19	— —	2 1.09	23 12.57	5 2.73	12 6.56	8 4.37	21 11.48	1 .55	3 1.64	36 19.67	13 7.10	2 1.09	5 2.73	12 6.56	1 .55	3 1.64	
Nevada	N 1 % 100.00	— —	— —	— —	— —	— —	— —	— —	1 100.00	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
PACIFIC	N 940 % 35.82	149 5.68	172 6.55	45 1.71	39 1.49	200 7.62	70 2.67	68 2.59	84 3.20	335 12.77	22 .84	65 2.48	471 17.95	73 2.78	37 1.41	157 5.98	108 4.12	10 .38	86 3.28	
Washington	N 122 % 34.46	16 4.52	22 6.21	5 1.41	6 1.69	39 11.02	9 2.54	17 4.80	13 3.67	32 9.04	6 1.69	8 2.26	69 19.49	11 3.11	11 3.11	17 4.80	16 4.52	3 .85	11 3.11	

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
34	23	—	1	4	5	28	6	14	2	1	5	—	—	14	—	9	68	234	N	Tennessee
14.53	9.83	—	.43	1.71	2.14	11.97	2.56	5.98	.85	.43	2.14	—	—	5.98	—	3.85	29.06	100.00	%	
8	5	—	—	2	1	6	3	1	2	—	—	—	—	11	11	—	43	106	N	Alabama
7.55	4.72	—	—	1.89	.94	5.66	2.83	.94	1.89	—	—	—	—	10.38	10.38	—	40.57	100.00	%	
5	4	—	—	1	—	5	5	—	—	—	—	—	—	—	—	—	18	54	N	Mississippi
9.26	7.41	—	—	1.85	—	9.26	9.26	—	—	—	—	—	—	—	—	—	33.33	99.99	%	
136	71	2	9	39	14	146	30	44	44	—	8	15	5	48	42	—	243	1,273	N	WEST SOUTH CENTRAL
10.68	5.58	.16	.71	3.06	1.10	11.47	2.36	3.46	3.46	—	.63	1.18	.39	3.77	3.30	—	19.09	100.00	%	
1	—	—	—	1	—	—	—	—	—	—	—	—	—	17	17	—	33	68	N	Arkansas
1.47	—	—	—	1.47	—	—	—	—	—	—	—	—	—	25.00	25.00	—	48.53	100.00	%	
29	11	2	3	9	3	64	10	20	20	—	5	7	2	7	7	—	12	211	N	Louisiana
13.74	5.21	.95	1.42	4.27	1.42	30.33	4.74	9.48	9.48	—	2.37	3.32	.95	3.32	3.32	—	5.69	99.99	%	
25	11	—	—	8	6	22	8	4	2	—	—	8	—	—	—	—	87	299	N	Oklahoma
8.36	3.68	—	—	2.68	2.01	7.36	2.68	1.34	.67	—	—	2.68	—	—	—	—	29.10	100.00	%	
81	49	—	6	21	5	60	12	20	22	—	3	—	3	24	18	—	111	695	N	Texas
11.65	7.05	—	.86	3.02	.72	8.63	1.73	2.88	3.17	—	.43	—	.43	3.45	2.59	—	15.97	99.99	%	
109	58	7	5	23	15	85	26	28	16	—	2	10	3	8	7	1	294	911	N	MOUNTAIN
11.96	6.37	.77	.55	2.52	1.65	9.33	2.85	3.07	1.76	—	.22	1.10	.33	.88	.77	.11	32.27	99.99	%	
5	—	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	7	31	N	Montana
16.13	—	—	—	16.13	—	—	—	—	—	—	—	—	—	—	—	—	22.58	100.00	%	
—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	8	22	N	Idaho
—	—	—	—	—	—	4.55	4.55	—	—	—	—	—	—	—	—	—	36.36	100.01	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	49	N	Wyoming
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	67.35	100.00	%	
61	26	1	4	16	14	55	14	19	12	—	—	8	2	6	6	—	138	401	N	Colorado
15.21	6.48	.25	1.00	3.99	3.49	13.72	3.49	4.74	2.99	—	—	2.00	.50	1.50	1.50	—	34.41	100.00	%	
—	—	—	—	—	—	11	7	4	—	—	—	—	—	—	—	—	12	57	N	New Mexico
—	—	—	—	—	—	19.30	12.28	7.02	—	—	—	—	—	—	—	—	21.05	99.99	%	
21	16	4	—	1	—	7	2	2	2	—	—	—	—	1	—	—	51	167	N	Arizona
12.57	9.58	2.40	—	.60	—	4.19	1.20	1.20	1.20	—	—	—	.60	—	—	—	30.54	99.99	%	
22	16	2	1	1	1	11	2	3	2	—	2	2	—	2	1	1	45	183	N	Utah
12.02	8.74	1.09	.55	.55	.55	6.01	1.09	1.64	1.09	—	1.09	1.09	—	1.09	.55	.55	24.59	99.99	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	N	Nevada
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00	%	
371	160	22	42	74	48	331	82	85	72	9	28	26	26	123	77	7	388	2,624	N	PACIFIC
14.14	6.10	.84	1.60	2.82	1.83	12.61	3.13	3.24	2.74	.34	1.07	.99	.99	4.69	2.93	.27	14.79	100.00	%	
51	25	1	7	11	4	49	9	19	10	1	2	4	4	27	26	—	36	354	N	Washington
14.41	7.06	.28	1.98	3.11	1.13	13.84	2.54	5.37	2.82	.28	.56	1.13	1.13	7.63	7.34	—	10.17	100.00	%	

TABLE 5
(continued)

State of Doctorate-Granting Institution	Field of Doctorate																		
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemistry	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOG, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
Oregon	N 67 % 24.81	16 5.93	4 1.48	— —	— —	30 11.11	9 3.33	9 3.33	9 3.33	8 2.96	1 .37	1 .37	72 26.67	22 8.15	4 1.48	15 5.56	17 6.30	4 1.48	10 3.70
California	N 742 % 37.70	117 5.95	145 7.37	40 2.03	33 1.68	124 6.30	48 2.44	42 2.13	61 3.10	295 14.99	15 .76	56 2.85	316 16.06	39 1.98	22 1.12	122 6.20	69 3.51	3 .15	61 3.10
Alaska	N 2 % 66.67	—	1 33.33	—	—	—	—	—	1 33.33	—	—	—	1 32.33	—	—	1 33.33	—	—	—
Hawaii	N 7 % 24.14	—	—	—	—	7 24.14	4 13.79	—	—	—	—	—	13 44.83	1 3.45	—	2 6.90	6 20.69	—	4 13.79
STATE UNKNOWN	N — % —	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	—	—	—

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Availability of Doctoral
Programs by State

In some states, doctoral programs are available in many fields and from many institutions; in other states, only a very limited number of programs from one institution are available. Figure 8 and Table 6 (pp. 33-38) illustrate this variation by showing the number of doctorate-granting institutions per state and the number of institutions in each state that have granted at least one doctorate in a given field between FY 1960 and 1966. New York has by far the most institutions (28) that granted at least one doctorate during the period FY 1960 - 1966. In contrast, 11 states have just one doctoral institution apiece, and another 12 states have only two per state.

Most institutions do not offer doctoral programs in all fields, so many states with one or two institutions find themselves with no viable doctoral programs in certain fields. Table 6 shows that 17 states did not grant doctorates in ten or more fields during the period, and only 21 states had granted degrees in all but one or two fields.

If Table 6 is analyzed by field, it shows that doctorates were granted in chemistry and biochemistry and physiology in almost all states, but that doctorates in anthropology, classic languages and literature, speech and dramatic arts, and religion were granted in fewer than half the states.

Geographic Migration,
High School to Doctorate

The people of the United States are mobile, and those who receive doctorates are no exception. They move from state to state and region to region as they progress from high school to undergraduate school to graduate school. Most persons receiving doctorates in a state are not natives of that state or even of the same general geographic region. Table 7 shows the geographic migration between high school and doctorate. The migration data have been analyzed for the periods FY 1958 - 1960 and FY 1961 - 1963 as well as for FY 1964 - 1966, but the percentages were quite stable, so only the latter period is displayed in Table 7 (p. 40).

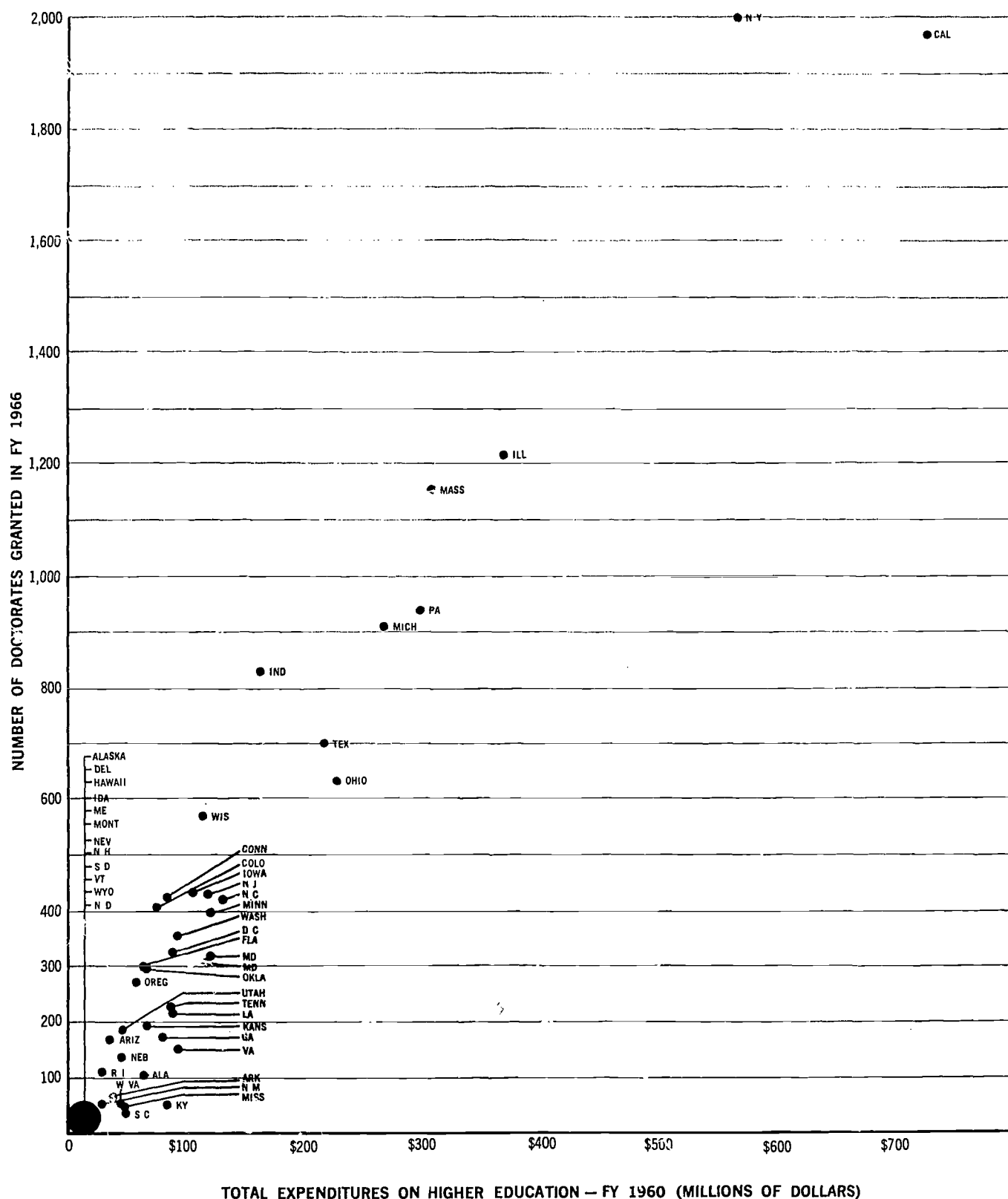
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	ALL FIELDS TOTAL		
38	20	3	5	3	7	15	6	6	2	—	—	1	—	7	5	—	71	270	N	Oregon
14.07	7.41	1.11	1.85	1.11	2.59	5.56	2.22	2.22	.74	—	—	.37	—	2.59	1.85	—	26.30	100.00	%	
275	109	18	30	59	37	265	66	60	59	8	26	21	22	89	46	7	281	1,968	N	California
13.97	5.54	.91	1.52	3.00	1.88	13.47	3.35	3.05	3.00	.41	1.32	1.07	1.12	4.52	2.34	.36	14.28	100.00	%	
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	N	Alaska
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00	%	
7	6	—	—	1	—	2	1	—	1	—	—	—	—	—	—	—	—	29	N	Hawaii
24.14	20.69	—	—	3.45	—	6.90	3.45	—	3.45	—	—	—	—	—	—	—	—	100.01	%	
1	1	—	—	—	—	2	—	1	1	—	—	—	—	2	—	—	1	7	N	STATE UNKNOWN

If one defines a "native" of a state as one who graduated from high school in that state, then only 27 percent of the doctorate recipients took doctorates in their native states. This percentage varies widely, from 50 percent for Texas to 10 percent for Arizona, but in general three fourths of a state's doctorates are immigrants.

Looked at in terms of the Census Bureau's nine geographic areas, a similar analysis shows that only 39 percent of these persons received doctorates in the same geographic region as the one in which they went to high school. Again, the variation is large, ranging from 53 percent for the West South Central region to 21 percent for New England.

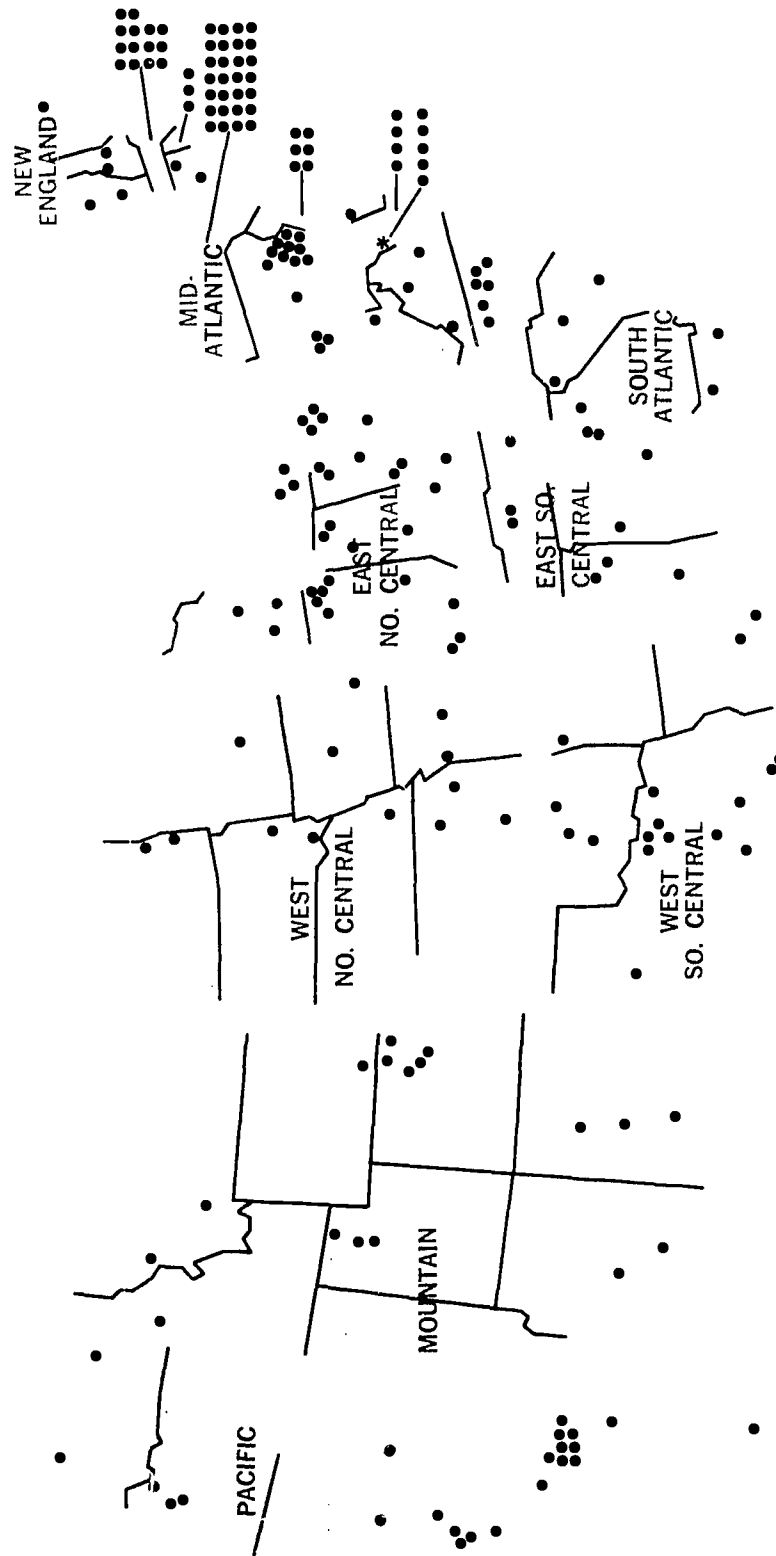
Appendix D tabulates the state of doctoral institution by state of baccalaureate institution for 80,978 United States natives who received doctorates between FY 1960 and 1966. Only 29,229 (36 percent) of these took their doctorate in the same state as the state of their baccalaureate. These data would suggest that concern for doctoral education must go beyond state or regional boundaries.

FIGURE 7
TOTAL EXPENDITURES IN FY 1960 ON HIGHER EDUCATION AND THE NUMBER OF DOCTORATES GRANTED IN FY 1966, BY STATE.



Source: USCE, *Financial Statistics of Institutions of Higher Education, 1959-60* (OE-50023-60) Table 1, p. 90.
NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 8
STATE AND REGIONAL AVAILABILITY OF
DOCTORATE-GRANTING INSTITUTIONS,
1960-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 6

Number of Institutions Granting at Least One Doctorate, FY 1960 - 1966, by State and Field of Doctorate

Number of Doctorate-Granting Institutions, FY 1960 - 1966, by Field

State of Doctorate-Granting Institution	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOG, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
U.S. TOTAL	165	103	124	79	102	152	139	138	82	106	84	81	151	60	98	140	135	74	115
NEW ENGLAND	21	7	13	8	10	20	19	17	7	10	7	8	16	8	10	16	13	6	13
MAINE	1	—	—	—	—	1	1	1	—	1	1	—	1	1	—	1	—	—	—
NEW HAMPSHIRE	2	1	1	—	—	1	1	1	—	1	1	—	2	1	—	2	1	1	2
VERMONT	1	—	—	—	—	1	1	1	—	—	—	—	1	—	1	1	1	—	1
MASSACHUSETTS	12	4	9	6	7	12	11	10	4	4	2	4	8	2	5	8	7	3	6
RHODE ISLAND	3	1	1	1	1	3	3	2	2	2	1	2	2	2	2	2	2	—	2
CONNECTICUT	2	1	2	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
MIDDLE ATLANTIC	31	20	26	17	20	29	25	26	12	20	17	17	30	5	19	26	28	11	19
NEW YORK	18	12	16	9	10	17	14	15	6	11	9	8	16	3	10	14	15	6	13
NEW JERSEY	4	3	3	3	3	3	3	3	2	4	3	4	3	1	2	3	3	2	2
PENNSYLVANIA	9	5	7	5	7	9	8	8	4	5	5	5	11	1	7	9	10	3	4
EAST NORTH CENTRAL	21	15	17	13	15	21	20	20	11	13	13	10	18	7	14	17	18	12	14
OHIO	7	4	5	3	5	7	6	7	3	3	3	2	4	1	3	3	4	3	3
INDIANA	3	3	3	3	2	3	3	3	2	2	2	2	3	2	3	3	3	3	3
ILLINOIS	6	4	4	3	4	6	6	5	3	3	3	3	6	1	4	6	6	3	4
MICHIGAN	3	3	3	3	3	3	3	3	2	3	3	2	3	2	2	3	3	2	3
WISCONSIN	2	1	2	1	1	2	2	2	1	2	2	1	2	1	2	2	2	1	1
WEST NORTH CENTRAL	12	8	9	7	9	12	11	11	9	8	7	7	14	7	12	13	12	6	13
MINNESOTA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IOWA	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2
MISSOURI	4	3	3	3	3	4	3	3	3	2	2	2	4	1	4	3	3	1	3
NORTH DAKOTA	2	—	—	—	—	2	2	2	1	—	—	—	2	1	1	2	2	—	2
SOUTH DAKOTA	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1	2	1	—	2
NEBRASKA	1	1	1	1	1	1	1	1	1	1	—	—	1	1	1	1	1	1	1

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL INSTITUTIONS	State of Doctorate-Granting Institution
137	118	39	73	95	77	134	102	97	78	44	68	39	52	97	50	37	121	212	U.S. TOTAL
12	12	3	7	10	9	14	10	6	9	6	7	1	5	8	2	5	6	24	NEW ENGLAND
1	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	MAINE
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	NEW HAMPSHIRE
—	—	—	—	—	—	1	—	—	1	—	—	—	—	—	—	—	—	2	VERMONT
8	8	2	4	7	6	9	7	3	5	4	5	—	3	5	2	3	5	14	MASSACHUSETTS
1	1	—	1	1	1	1	1	1	1	1	1	—	—	1	—	1	—	3	RHODE ISLAND
2	2	1	2	2	2	2	1	2	2	1	1	1	2	2	—	1	1	2	CONNECTICUT
26	22	10	13	17	14	26	18	19	15	12	19	7	10	23	10	14	20	48	MIDDLE ATLANTIC
15	12	5	9	10	8	14	10	10	8	7	11	4	6	13	6	8	13	28	NEW YORK
2	2	1	1	2	2	3	2	2	2	1	2	—	1	3	—	2	1	6	NEW JERSEY
9	8	4	3	5	4	9	6	7	5	4	6	3	3	7	4	4	6	14	PENNSYLVANIA
18	17	10	15	15	12	22	16	16	12	9	12	12	9	16	12	7	22	28	EAST NORTH CENTRAL
5	5	2	3	4	3	8	5	6	4	3	2	3	2	4	2	2	7	10	OHIO
3	2	1	3	3	2	4	3	2	1	1	2	2	1	3	2	2	4	5	INDIANA
6	6	4	5	4	4	5	4	4	3	3	4	3	3	5	5	2	6	7	ILLINOIS
3	3	2	3	3	2	3	3	3	3	1	2	3	2	2	2	1	3	3	MICHIGAN
1	1	1	1	1	1	2	1	1	1	1	2	1	1	2	1	—	2	3	WISCONSIN
12	10	1	10	10	8	11	9	8	7	3	5	5	5	10	7	1	12	15	WEST NORTH CENTRAL
1	1	1	1	1	1	1	1	1	1	—	1	1	1	1	1	—	1	1	MINNESOTA
2	2	—	2	2	1	1	1	1	1	1	1	1	1	2	1	1	2	2	IOWA
4	3	—	4	3	4	4	4	3	3	2	2	1	2	4	3	—	4	4	MISSOURI
1	1	—	—	—	—	1	1	—	—	—	—	—	—	1	1	—	1	2	NORTH DAKOTA
1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	2	SOUTH DAKOTA
1	1	—	1	1	1	1	1	1	1	—	1	—	—	1	1	—	1	1	NEBRASKA

TABLE 6
(continued)

Number of Doctorate-Granting Institutions, FY 1960 - 1966, by Field

State of Doctorate-Granting Institution	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
KANSAS	2	1	2	—	2	2	2	2	1	2	2	2	2	1	2	2	2	1	2
SOUTH ATLANTIC	23	18	19	12	15	22	20	20	9	15	11	11	23	11	16	21	22	11	18
DELAWARE	1	1	1	—	1	1	1	1	—	1	1	1	1	—	1	1	1	—	1
MARYLAND	2	2	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	1	2
DIST OF COLUMBIA	5	4	4	1	3	4	4	4	—	2	—	2	4	1	3	4	4	1	3
VIRGINIA	3	2	2	2	2	3	2	2	1	2	2	2	3	1	2	3	3	1	2
WEST VIRGINIA	1	—	1	—	1	1	1	1	1	1	1	—	1	1	1	1	1	—	1
NORTH CAROLINA	3	3	3	2	3	3	2	2	2	3	1	2	4	2	3	3	4	3	3
SOUTH CAROLINA	2	1	2	1	1	2	2	2	1	2	2	—	3	2	1	2	2	—	1
GEORGIA	3	2	2	2	1	3	3	3	—	1	1	1	2	1	1	2	2	2	2
FLORIDA	3	3	2	2	1	3	3	3	3	1	1	1	3	2	2	3	3	3	3
EAST SOUTH CENTRAL	9	6	4	4	4	7	7	7	1	7	5	5	8	4	5	8	8	4	7
KENTUCKY	2	1	1	1	1	2	2	2	—	2	1	—	2	1	1	2	2	1	2
TENNESSEE	3	3	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	1	2
ALABAMA	2	2	1	1	1	2	2	2	—	2	1	2	2	1	1	2	2	2	2
MISSISSIPPI	2	—	—	—	—	1	1	1	—	1	1	1	2	1	1	2	2	—	1
WEST SOUTH CENTRAL	12	8	9	4	9	11	11	11	6	10	9	7	12	4	8	12	10	4	7
ARKANSAS	1	—	1	—	1	1	1	1	—	1	1	1	1	1	1	1	1	—	—
LOUISIANA	2	2	2	1	2	2	2	2	2	2	2	—	2	1	2	2	2	—	2
OKLAHOMA	2	2	2	1	2	2	2	2	1	2	2	2	2	1	2	2	2	2	2
TEXAS	7	4	4	2	4	6	6	6	3	5	4	4	7	1	3	7	5	2	3
MOUNTAIN	17	9	12	6	8	13	12	11	13	13	7	8	12	6	4	10	8	8	11
MONTANA	2	1	—	—	—	1	1	1	1	1	1	1	2	1	—	1	1	1	2
IDAHO	1	1	—	—	—	1	1	1	1	1	1	—	1	1	—	1	1	1	1
WYOMING	1	—	—	—	—	1	1	1	1	1	—	—	1	1	—	1	—	1	1
COLORADO	4	2	4	2	2	3	2	2	3	4	2	2	2	1	2	2	2	2	2

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL INSTITUTIONS	State of Doctorate-Granting Institution
2	2	—	1	2	1	3	1	2	1	—	—	2	1	1	—	—	2	3	KANSAS
<u>20</u>	<u>16</u>	<u>3</u>	<u>10</u>	<u>14</u>	<u>13</u>	<u>18</u>	<u>17</u>	<u>13</u>	<u>12</u>	<u>4</u>	<u>9</u>	<u>2</u>	<u>7</u>	<u>15</u>	<u>5</u>	<u>5</u>	<u>16</u>	<u>29</u>	<u>SOUTH ATLANTIC</u>
1	1	—	—	—	—	1	1	1	—	—	—	—	—	1	—	—	1	1	DELAWARE
2	2	1	2	2	2	3	2	2	2	1	2	—	2	3	—	2	2	4	MARYLAND
4	3	1	2	4	4	5	5	2	3	1	2	—	1	4	2	1	3	5	DIST OF COLUMBIA
2	1	—	—	2	1	1	1	1	1	1	1	—	—	1	—	—	1	3	VIRGINIA
1	1	—	—	—	—	1	1	—	—	—	—	—	1	—	—	—	1	1	WEST VIRGINIA
3	2	1	3	3	2	2	2	2	2	1	2	—	1	3	1	1	3	6	NORTH CAROLINA
2	1	—	—	1	—	1	1	1	—	—	—	—	—	—	—	—	1	3	SOUTH CAROLINA
2	2	—	1	1	2	2	2	2	2	—	1	—	1	1	1	1	1	3	GEORGIA
3	3	—	2	1	2	2	2	2	2	—	1	2	1	2	1	—	3	3	FLORIDA
<u>9</u>	<u>8</u>	<u>—</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>9</u>	<u>7</u>	<u>7</u>	<u>4</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>6</u>	<u>2</u>	<u>1</u>	<u>8</u>	<u>10</u>	<u>EAST SOUTH CENTRAL</u>
2	2	—	1	1	1	1	1	1	1	—	—	—	—	1	—	—	2	2	KENTUCKY
3	3	—	2	2	2	3	3	3	2	1	2	—	1	2	—	1	2	3	TENNESSEE
1	1	—	—	1	1	2	1	2	1	—	—	—	—	1	1	—	2	2	ALABAMA
3	2	—	1	1	—	3	2	1	—	—	—	1	—	2	1	—	2	3	MISSISSIPPI
<u>14</u>	<u>12</u>	<u>2</u>	<u>3</u>	<u>10</u>	<u>4</u>	<u>11</u>	<u>6</u>	<u>9</u>	<u>6</u>	<u>2</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>—</u>	<u>13</u>	<u>17</u>	<u>WEST SOUTH CENTRAL</u>
1	1	—	—	1	—	1	—	1	1	—	1	—	—	1	1	—	1	1	ARKANSAS
2	2	1	2	2	2	2	2	2	2	1	1	2	1	1	1	—	1	2	LOUISIANA
2	2	—	—	2	1	1	1	1	1	—	—	1	—	1	1	—	3	3	OKLAHOMA
9	7	1	1	5	1	7	3	5	2	1	2	1	3	2	1	—	8	11	TEXAS
<u>12</u>	<u>10</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>8</u>	<u>7</u>	<u>6</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>5</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>13</u>	<u>18</u>	<u>MOUNTAIN</u>
1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	2	2	MONTANA
1	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	1	1	IDAHO
1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	WYOMING
3	3	1	1	1	2	2	2	2	1	1	1	1	2	1	1	—	3	5	COLORADO

TABLE 6
(continued)

Number of Doctorate-Granting Institutions, FY 1960 - 1966, by Field

State of Doctorate-Granting Institution	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOTANY, ZOOLOGY, GENERAL BIOLOGY
NEW MEXICO	3	2	2	2	2	1	1	1	2	2	1	2	1	—	—	1	—	—	1
ARIZONA	2	2	2	1	2	2	2	2	1	2	1	2	2	1	1	1	1	1	2
UTAH	3	1	3	1	2	3	3	3	3	2	1	1	3	1	1	3	3	2	2
NEVADA	1	—	1	—	—	1	1	—	1	—	—	—	—	—	—	—	—	—	—
PACIFIC	19	12	15	8	12	17	14	15	14	10	8	8	18	8	10	17	16	12	13
WASHINGTON	2	2	2	1	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2
OREGON	2	2	2	—	2	2	2	2	2	1	1	1	2	1	2	2	2	2	2
CALIFORNIA	13	8	10	7	8	12	9	10	8	7	6	6	12	4	6	11	11	6	8
ALASKA	1	—	1	—	—	—	—	—	1	—	—	—	1	—	—	1	—	1	—
HAWAII	1	—	—	—	—	1	1	1	1	—	—	—	1	1	—	1	1	1	1

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLIT SCI AND INT RELAT	ARTS AND HUMANITIES	HISTORY	ENGLISH AND AMERICAN LANG AND LIT	MODERN FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL INSTITUTIONS	State of Doctorate-Granting Institution
1	1	1	—	—	—	1	1	1	1	—	—	—	—	—	—	—	1	3	NEW MEXICO
2	2	1	—	1	1	2	1	2	1	—	—	—	1	—	—	—	2	2	ARIZONA
3	3	1	2	1	1	2	2	1	1	1	1	1	2	2	1	1	3	3	UTAH
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	NEVADA
<u>14</u>	<u>11</u>	<u>6</u>	<u>8</u>	<u>10</u>	<u>8</u>	<u>15</u>	<u>12</u>	<u>13</u>	<u>9</u>	<u>5</u>	<u>8</u>	<u>5</u>	<u>6</u>	<u>11</u>	<u>6</u>	<u>3</u>	<u>11</u>	<u>23</u>	<u>PACIFIC</u>
2	2	1	2	2	1	2	2	2	1	1	1	1	1	2	1	—	2	2	WASHINGTON
3	2	1	2	2	1	1	1	1	1	—	—	1	—	2	1	—	3	3	OREGON
8	6	4	4	5	6	11	8	10	6	4	7	3	5	7	4	3	6	16	CALIFORNIA
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	ALASKA
1	1	—	—	1	—	1	1	—	1	—	—	—	—	—	—	—	—	1	HAWAII

TABLE 7

Doctorate Recipients by State and the Number Who Attended High School in the Same State, FY 1964 - 1966

State of Doctoral Institution	Number of Doctorate Recipients FY 1964-66	Doctorates Attending H S in Same State		State of Doctoral Institution	Number of Doctorate Recipients FY 1964-66	Doctorates Attending H S in Same State	
		N	%			N	%
MAINE	21	6	28.6	ALABAMA	263	106	40.3
NEW HAMPSHIRE	61	9	14.8	MISSISSIPPI	165	52	31.5
VERMONT	24	3	12.5	ARKANSAS	179	71	39.7
MASSACHUSETTS	3,259	452	13.9	LOUISIANA	551	145	26.3
RHODE ISLAND	302	26	8.6	OKLAHOMA	760	264	34.7
CONNECTICUT	1,115	118	10.6	TEXAS	1,695	851	50.2
NEW YORK	5,646	2,240	39.7	MONTANA	76	23	30.3
NEW JERSEY	1,168	230	19.7	IDAHO	44	12	27.3
PENNSYLVANIA	2,588	995	38.5	WYOMING	114	10	8.8
OHIO	1,899	668	35.2	COLORADO	996	128	12.9
INDIANA	2,273	362	15.9	NEW MEXICO	159	26	16.4
ILLINOIS	2,415	833	24.4	ARIZONA	397	40	10.1
MICHIGAN	2,540	668	26.3	UTAH	441	195	44.2
WISCONSIN	1,590	330	20.8	NEVADA	5	—	—
MINNESOTA	1,075	328	30.5	WASHINGTON	883	194	22.0
IOWA	1,293	313	24.2	OREGON	686	117	17.1
MISSOURI	859	277	32.3	CALIFORNIA	5,241	1,449	27.7
NORTH DAKOTA	98	30	30.6	ALASKA	10	—	—
SOUTH DAKOTA	34	7	20.6	HAWAII	63	8	12.7
NEBRASKA	337	139	41.3				
KANSAS	539	148	27.5				
DELAWARE	143	11	7.7	Region of Doctoral Institution	Number of Doctorate Recipients FY 1964-66	Doctorates Attending H S in Same Region	
MARYLAND	858	118	13.8			N	%
DIST OF COLUMBIA	834	42	5.0	NEW ENGLAND	4,782	1,017	21.3
VIRGINIA	378	96	25.4	MIDDLE ATLANTIC	9,402	4,763	50.7
WEST VIRGINIA	94	36	38.3	EAST NO. CENTRAL	11,717	4,526	38.6
NORTH CAROLINA	1,128	215	19.1	WEST NO. CENTRAL	4,235	1,871	44.2
SOUTH CAROLINA	89	28	31.5	SOUTH ATLANTIC	4,790	1,532	32.0
GEORGIA	406	127	31.3	EAST SO. CENTRAL	1,253	558	44.5
FLORIDA	860	151	17.6	WEST SO. CENTRAL	3,185	1,685	52.9
KENTUCKY	200	81	40.5	MOUNTAIN	2,232	614	27.5
TENNESSEE	625	165	26.4	PACIFIC	6,883	2,306	33.5
				REGION UNKNOWN	12	—	—
				U.S. TOTAL	48,491	18,872	38.9

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER II THE PROCESS OF DOCTORAL EDUCATION

- DEGREE PATTERNS AND INSTITUTIONAL TRANSFER PATTERNS
- PARENTAL EDUCATION
- DOCTORAL ADVISEES PER ADVISER
- CORRELATES OF INSTITUTION SIZE
- CORRELATES OF BACCALAUREATE-TO-DOCTORATE TIME LAPSE

The patterns of doctoral education in the United States are varied and complex. Uniformities that characterize high-school and undergraduate patterns—continuous, full-time attendance at one institution for four years—disappear at the graduate level. Some doctoral candidates begin graduate work immediately upon receipt of the baccalaureate, and some postpone entrance for many years; some take a master's degree as part of the doctoral program, and some do not; some take all their graduate work at one institution, and some transfer; some take their baccalaureate, master's, and doctoral degrees in the same field, and some shift fields.

Because the Doctorate Records File contains the academic histories of the doctorate recipients, it is possible to trace in some detail the varied paths followed by students and to investigate the relations among such variables as field choice, type of undergraduate institution, type of graduate institution, and time lapse from baccalaureate to doctorate. This chapter presents data that describe some aspects of the doctoral education process.

DEGREE PATTERNS AND INSTITUTIONAL TRANS- FER PATTERNS

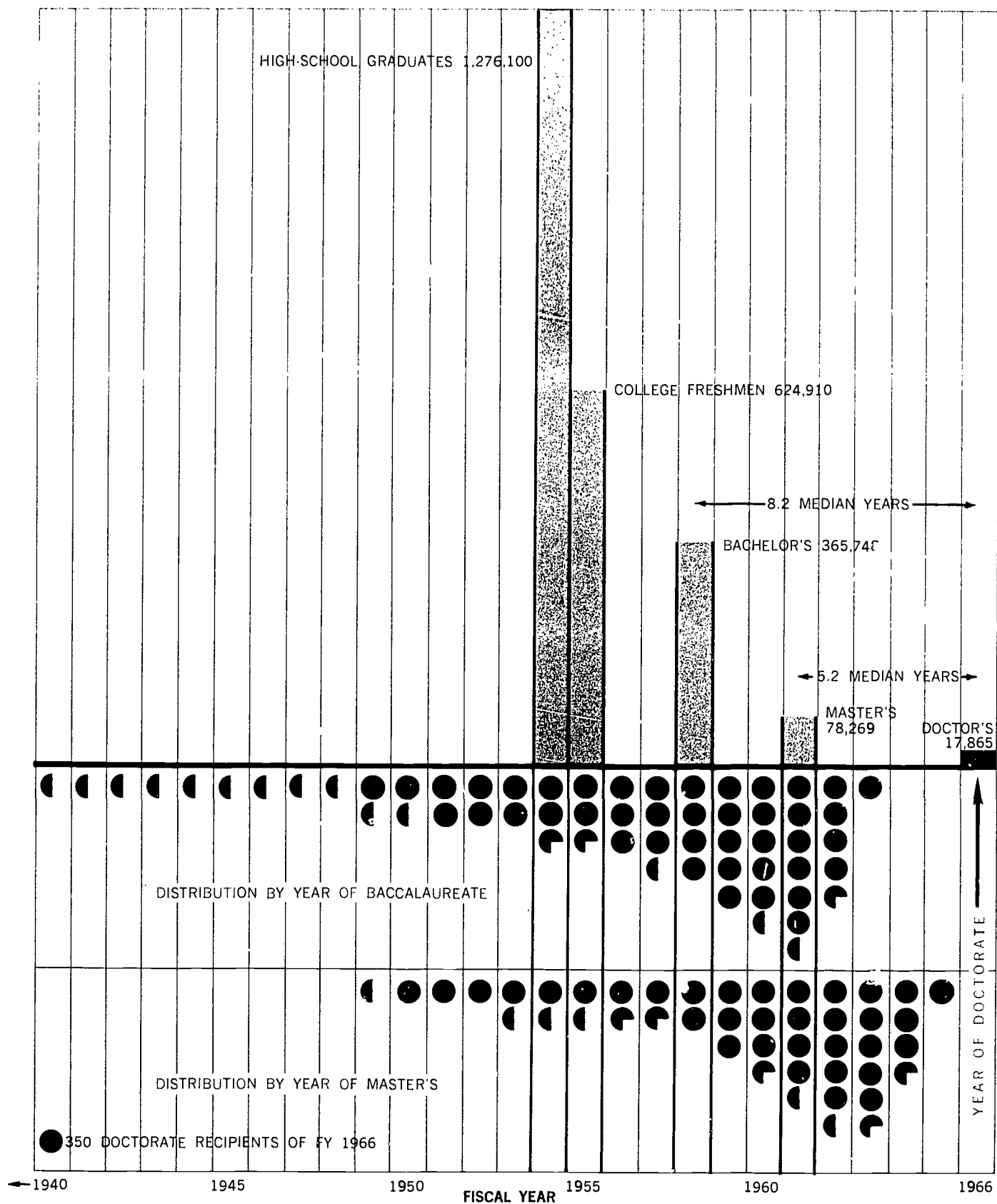
Degree Patterns

A summary of the academic history of the 17,865 doctorate recipients of FY 1966 is presented graphically in Figure 9. One out of nine had received the baccalaureate during or after 1962 and had completed all doctoral requirements in four or fewer years. In contrast, one out of seven received the baccalaureate prior to 1950, attended graduate school after some years of nonacademic experience, and completed doctoral requirements in 16 or more years. Half of the group received baccalaureates during or after FY 1958: The median time lapse from baccalaureate to doctorate was 8.2 years.

Eighty percent of the 1966 doctorate recipients took master's degrees during their graduate programs. One in eight received the master's degree during or after 1964, and about one in seven received the master's degree prior to 1955. The median time lapse from master's to doctorate was 5.2 years. The baccalaureate-to-doctorate and master's-to-doctorate time-lapse distributions are shown to scale in the bottom part of Figure 9.

The vertical bars in the upper part of the figure represent graphically certain reference statistics of the United States educational system from high school to doctorate. The 17,865 doctorate recipients are shown at year 1966.

FIGURE 9
REFERENCE STATISTICS OF U. S. DOCTORAL EDUCATION, FY 1966.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.

USOE, *Opening Fall Enrollment, 1954* (OE-54003).

USOE, *Digest of Educational Statistics, 1966*, p. 50 (OE-10024-66).

USOE, *Earned Degrees Conferred, 1963-64*, p. 5 (OE-54013-64).

Then, going back the median number of years (5) from doctorate to master's, the total master's degree population of 1961 is shown. In like manner, the median baccalaureate-to-doctorate time lapse was 8 years, so the total United States baccalaureate population of 1958 is represented. The beginning college-freshman enrollment and high-school graduating class are taken 3 and 4 years respectively prior to the baccalaureate year.

The data in Figure 9 represent cross sections of the educational stream at different levels and at different points in time. The classes represented are somewhat arbitrarily chosen, because criteria other than median time lapse could have been employed in selection. Also, it should be noted that only a few of the 1966 doctorate recipients were members of these particular classes. Nevertheless, the general pattern and the associated ratios are probably of good accuracy.

The percentage of the doctorate recipients who shifted fields as they progressed up the educational ladder and their tendency to omit the master's degree are strongly related to doctoral field. Figure 10 and the associated Table 8 illustrate these points. Appendix F shows the detailed pattern of baccalaureate-to-doctorate field shifting.

The physical sciences and engineering fields are highly self-contained. Only 7 percent of the doctorate recipients in these fields took baccalaureates in a non-physical-science field, and only 2 percent had master's degrees from outside fields. Table 8 shows that 70-89 percent remained within a specific subfield of the physical sciences.

The biological sciences drew 25 percent of their doctoral students from other broad fields. Physiology and biochemistry recruited almost half of their doctorate recipients from the physical sciences. Table 8 data show very low retention rates from the baccalaureate to the doctorate within specific subfields of the biological sciences. This may indicate less precise field differentiation at the baccalaureate level in those fields than in the physical sciences.

The social sciences recruit one third of their doctoral students from other fields and have about 50 percent retention within subfield between the baccalaureate and doctorate. The arts and humanities resemble the physical sciences in that they recruit very few from other fields at either the baccalaureate or master's levels, and they show high retention rates within subfields.

The professional fields and education obtain over half of their doctoral students from other fields, and almost one fourth of the education doctorates received master's degrees from outside fields.

The above data suggest that the student in certain fields must decide upon a graduate major in the field as an undergraduate whereas other fields permit extensive inflow during the graduate program.

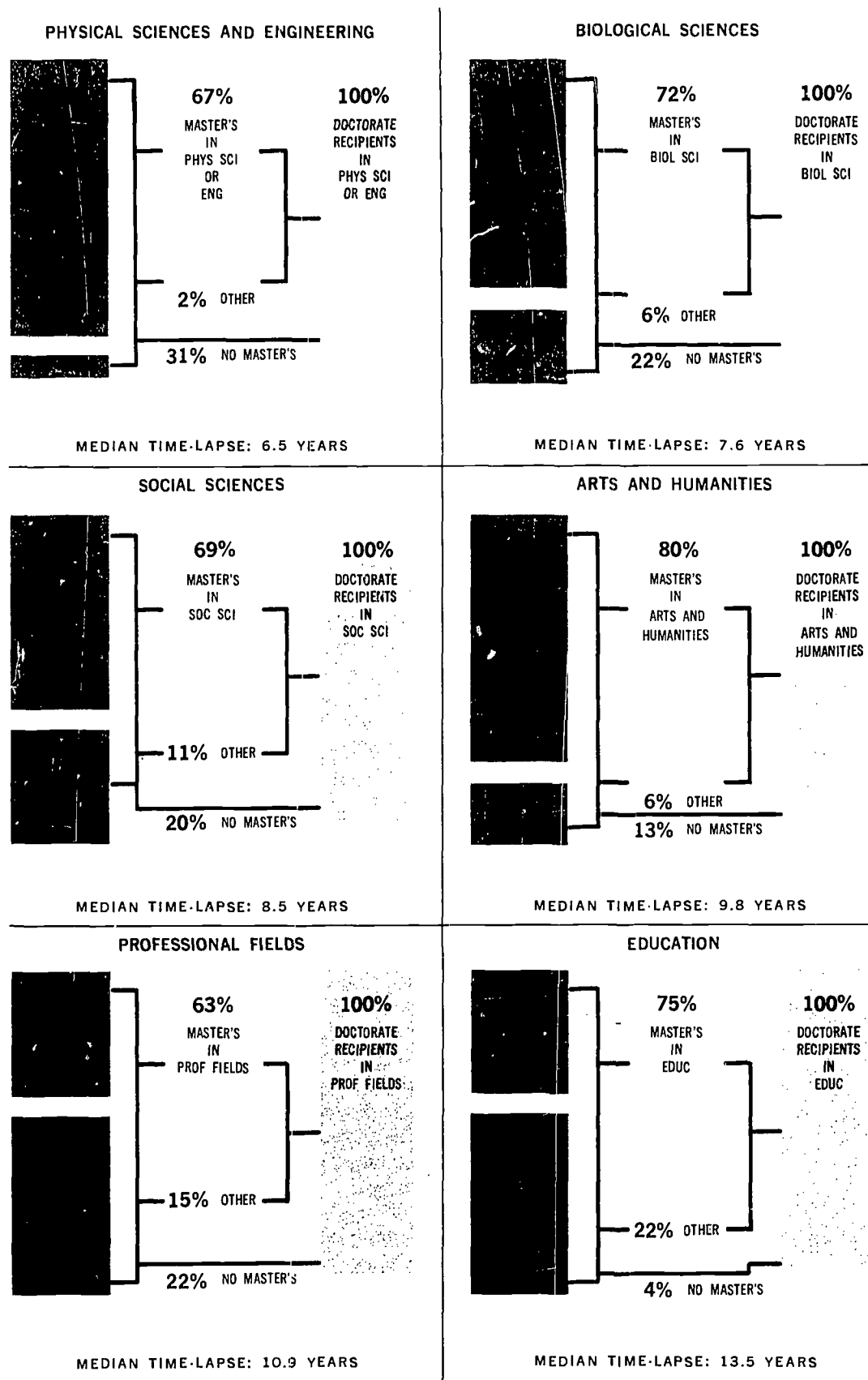
Figure 10 and Table 8 indicate also the field variation in the percentage of doctorate recipients who take master's degrees, and they show the average time lapse from baccalaureate to doctorate for the fields. In general, those fields, such as the physical sciences, that have little field transfer between baccalaureate and doctorate have the largest percentages of students bypassing the master's degree.

Institutional Transfer Patterns

Figure 11 and Table 9 (pp. 46-49) show the types of undergraduate institutions attended by the 1964-1966 doctorate recipients. The data displayed in Table 9 were analyzed for the years 1958-1960 and 1961-1963 as well as for 1964-1966, but the only significant trend was an increase in the percentage coming from foreign baccalaureate institutions (11.0-13.5), so only the FY 1964-1966 data are shown in the table.

The United States baccalaureate-source institutions are classified by the use of three variables: (1) highest degree granted (bachelor's, master's, doctorate); (2) control (public, private); (3) size (large, small). Enrollments used to classify institutions as large or small were chosen so as to divide the institutions within a "degree control" category into two approximately equal groups. All foreign baccalaureate institutions were grouped into a 13th category.

FIGURE 10
FIELD CHANGES:
BACCALAUREATE TO MASTER'S
TO DOCTORATE, FY 1958-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 8

Field Changes from Baccalaureate to Master's to Doctorate, by Field of Doctorate, FY 1958 - 1966

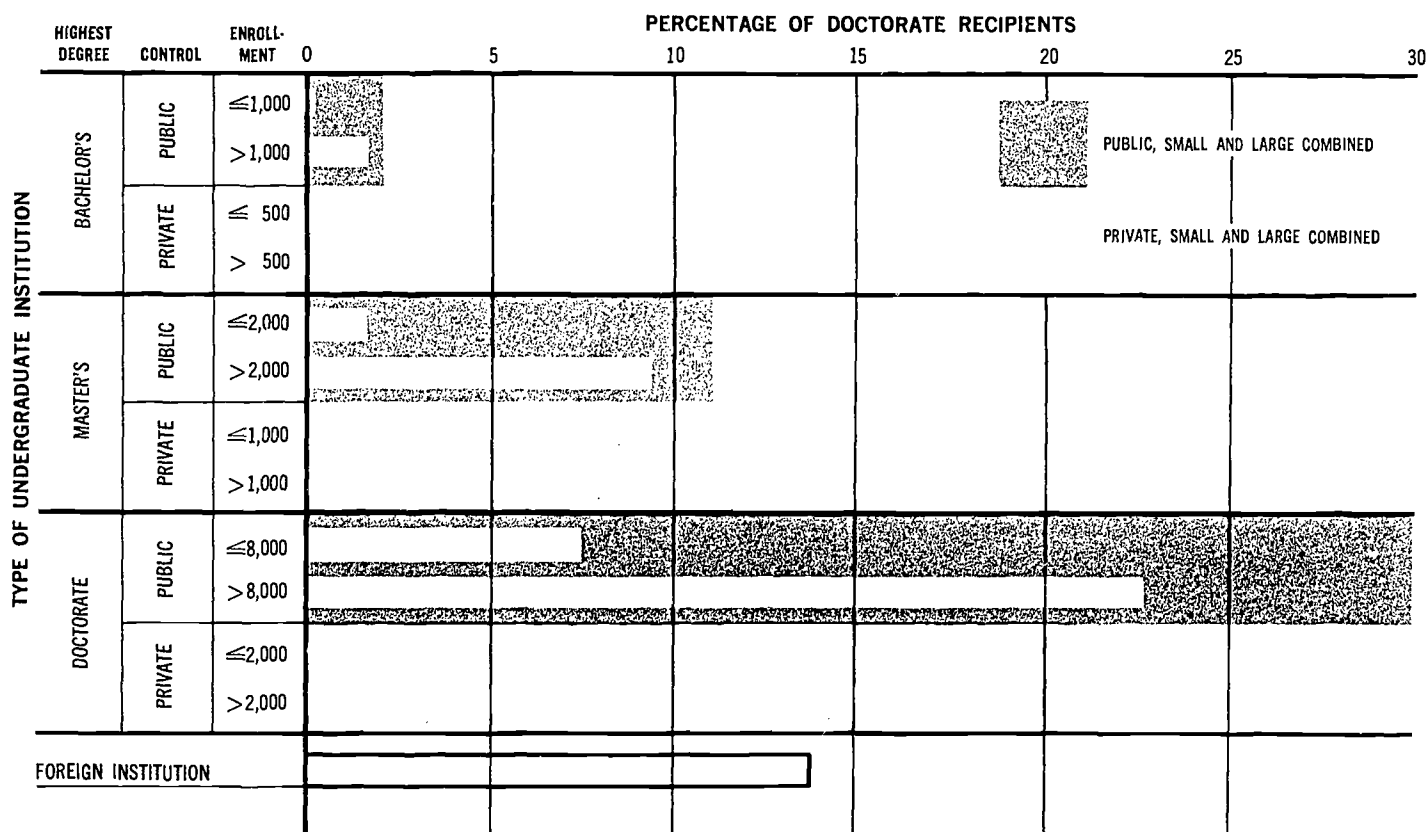
Field of Doctorate	Doctorate Recipients FY 1958-66 N	Field of Master's		No Master's % of N	Field of Baccalaureate		Median Time Lapse Bacc to Doctorate (total time)
		Same as Doctorate % of MS	Different from Doctorate % of MS		Same as Doctorate % of BS	Different from Doctorate % of BS	
TOTAL ALL FIELDS	110,845	81	19	20	60	40	8.5 yrs
PHYSICAL SCIENCES AND ENGINEERING*	35,950	97	3	31	93	7	6.5
MATHEMATICS	4,062	90	10	23	70	30	6.4
PHYSICS AND ASTRONOMY	6,626	91	9	36	75	25	6.6
CHEMISTRY	11,040	91	9	54	85	15	5.7
EARTH SCIENCES	2,577	92	8	22	74	26	7.6
ENGINEERING	11,645	95	5	13	89	11	7.0
BIOLOGICAL SCIENCES*	18,679	93	7	22	75	25	7.6
AGRICULTURE AND FORESTRY	4,130	90	10	11	75	25	7.7
HEALTH SCIENCES	2,006	78	22	19	52	48	8.6
BIOCHEM, BIOPHYS, PHYSIOL, BIostatist	4,892	49	51	34	8	92	7.0
ANAT, CYTOL, ENTOMOL, GENET	4,271	67	33	21	21	79	7.7
ECOLOGY, HYDROBIOLOGY	375	34	66	15	6	94	7.8
BOT, ZOOL, GEN BIOL, OTHER	3,005	83	17	21	71	29	7.7
SOCIAL SCIENCES*	18,149	86	14	20	64	36	8.5
PSYCHOLOGY	7,975	85	15	22	64	36	7.6
ANTHROPOLOGY AND ARCHEOLOGY	740	78	22	35	42	58	9.4
SOCIOLOGY	1,760	75	25	13	43	57	9.6
ECON AND ECONOMETRICS	4,000	79	21	20	51	49	8.6
POLIT SCI AND INT RELAT	2,628	82	18	18	51	49	9.1
ARTS AND HUMANITIES*	15,463	93	7	13	81	19	9.8
HISTORY	3,921	86	14	12	66	34	9.3
ENGLISH AND AMERICAN LANG AND LIT	4,251	94	6	10	77	23	10.0
MODERN FOREIGN LANG AND LIT	2,558	84	16	21	59	41	9.9
CLASSIC LANG AND LIT	514	79	21	24	59	41	8.6
PHILOSOPHY	1,236	83	17	28	58	42	8.3

TABLE 8
(continued)

Field of Doctorate	Doctorate Recipients FY 1958-66 N	Field of Master's		No Master's % of N	Field of Baccalaureate		Median Time Lapse Bacc to Doctorate (total time)
		Same as Doctorate % of MS	Different from Doctorate % of MS		Same as Doctorate % of BS	Different from Doctorate % of BS	
SPEECH AND DRAMATIC ARTS	1,560	82	18	4	52	48	10.0 yrs
FINE ARTS AND MUSIC	1,320	90	10	8	72	28	11.7
<u>PROFESSIONAL FIELDS*</u>	<u>4,207</u>	<u>81</u>	<u>19</u>	<u>22</u>	<u>42</u>	<u>58</u>	<u>10.9</u>
BUSINESS ADMINISTRATION	1,869	85	15	6	55	45	9.8
RELIGION AND THEOLOGY	1,428	75	25	47	19	81	11.2
<u>EDUCATION</u>	<u>18,397</u>	<u>77</u>	<u>23</u>	<u>4</u>	<u>43</u>	<u>57</u>	<u>13.5</u>

*Percentages for summary fields are based on doctorate recipients who received their baccalaureate or master's degree in any field within the summary field.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 11
TYPES OF UNDERGRADUATE INSTITUTIONS AS SOURCES OF DOCTORATE RECIPIENTS, FY 1964-1966.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Doctorate Recipients by Type of Undergraduate Institution

Field of Doctorate	Baccalaureate				Master's				Doctorate				Total		
	Public		Private		Public		Private		Public		Private		Unknown Type U.S.	Foreign Insts.	Doctorate Recipients FY 1964-66
	<1,000	>1,000	<500	>500	<2,000	>2,000	<1,000	>1,000	<8,000	>8,000	<2,000	>2,000			
BIOLOGICAL SCIENCES	N 20	102	119	645	81	576	143	461	960	1,990	121	953	64	1,676	7,911
	% .25	1.29	1.50	8.15	1.02	7.28	1.81	5.83	12.14	25.15	1.53	12.05	.81	21.19	100.00
	N 2	25	6	32	8	78	5	16	354	570	3	51	3	512	1,665
	% .12	1.50	.36	1.92	.48	4.68	.30	.96	21.26	34.23	.18	3.06	.18	30.75	99.98
	N 4	5	8	70	3	25	16	40	86	235	26	141	9	208	856
HEALTH SCIENCES	% .47	.58	.93	5.84	.35	2.92	1.87	4.67	10.05	27.45	3.04	16.47	1.05	24.30	99.99
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	N 5	22	43	239	21	168	48	202	203	408	46	373	18	416	2,212
	% .23	.99	1.94	10.80	.95	7.59	2.17	9.13	9.18	18.44	2.08	16.86	.81	18.81	99.98
	N 6	19	32	167	18	150	35	107	181	446	27	235	8	378	1,809
	% .33	1.05	1.77	9.23	1.00	8.29	1.93	5.91	10.01	24.65	1.45	12.99	.44	20.90	99.99
	ECOLOGY AND HYDROBIOLOGY	N 1	2	1	11	—	21	8	8	14	41	1	16	1	15
% .71		1.43	.71	7.86	—	15.00	5.71	5.71	10.00	29.29	.71	11.43	.71	10.71	99.98
N 2		29	29	146	31	134	31	88	122	290	18	137	25	147	1,229
% .16		2.36	2.36	11.88	2.52	10.90	2.52	7.16	9.93	23.60	1.46	11.15	2.03	11.96	99.99
SOCIAL SCIENCES		N 10	85	116	589	49	828	192	657	414	1,751	133	1,499	120	904
	% .14	1.16	1.58	8.02	.67	11.27	2.61	8.94	5.63	23.83	1.31	20.40	1.63	12.30	99.99
	N 1	19	51	289	15	482	80	336	130	761	67	680	33	157	3,101
	% .03	.61	1.64	9.32	.48	15.54	2.58	10.84	4.19	24.54	2.16	21.93	1.06	5.06	99.98
	N —	2	4	19	—	19	5	17	20	88	4	65	9	42	294
ANTHROPOLOGY AND ARCHEOLOGY	% —	.68	1.36	6.46	—	6.46	1.70	5.78	6.80	29.93	1.36	22.11	3.06	14.29	99.99
SOCIOLOGY	N —	10	21	72	5	90	21	60	32	166	8	120	10	83	698
	% —	1.43	3.01	10.32	.72	12.89	3.01	8.60	4.58	23.78	1.15	17.19	1.43	11.89	100.00
ECONOMICS AND ECONOMETRICS	N 5	16	20	91	9	95	34	104	157	430	22	311	23	392	1,709
	% .29	.94	1.17	5.32	.53	5.56	1.99	6.09	9.19	25.16	1.29	18.20	1.35	22.94	100.02
POLIT SCIENCE AND INT RELATIONS	N 2	29	16	92	9	83	40	114	57	215	24	245	40	162	1,128
	% .18	2.57	1.42	8.16	.80	7.36	3.55	10.11	5.05	19.06	2.13	21.72	3.55	14.36	100.02

TABLE 9
(continued)

Doctorate Recipients by Type of Undergraduate Institution															
	Baccalaureate			Master's			Doctorate			Unknown		Total Doctorate Recipients FY 1964-66			
	Public	Private		Public	Private		Public	Private		Type U.S.	Foreign Insts.				
		≤1,000	>1,000		≤500	>500		≤2,000	>2,000				≤8,000	>8,000	
Field of Doctorate	≤1,000	>1,000	≤500	>500	≤2,000	>2,000	≤1,000	>1,000	≤8,000	>8,000	>2,000	>2,000			
ARTS AND HUMANITIES	N 14 % .21	108 1.59	168 2.47	858 12.61	66 .97	599 8.80	229 3.37	739 10.86	311 4.57	1,238 18.19	159 2.34	1,593 23.41	184 2.70	539 7.92	6,805 100.01
HISTORY	N 5 % .28	34 1.91	59 3.32	262 14.73	22 1.24	148 8.32	50 2.81	199 11.19	82 4.61	296 16.64	44 2.47	432 24.28	47 2.64	99 5.56	1,779 100.00
ENGLISH AND AMERICAN LANG AND LIT	N 3 % .16	33 1.77	54 2.90	248 13.31	16 .86	187 10.04	64 3.44	217 11.65	100 5.37	311 16.69	49 2.65	444 23.83	41 2.20	96 5.15	1,863 100.00
MODERN FOREIGN LANG AND LIT	N 1 % .08	12 1.00	15 1.24	111 9.20	2 .17	75 6.22	24 1.99	94 7.79	49 4.06	251 20.81	35 2.90	270 22.39	40 3.32	227 18.82	1,206 99.99
CLASSIC LANGUAGE AND LITERATURE	N — % —	— —	8 3.38	32 13.50	— —	8 3.38	12 5.06	25 10.55	6 2.53	25 10.55	8 3.38	65 27.43	10 4.22	38 16.03	237 100.01
PHILOSOPHY	N — % —	1 .21	11 2.26	65 13.37	— —	12 2.47	25 5.14	60 12.35	14 2.88	88 18.11	9 1.85	141 29.01	29 5.97	31 6.38	486 100.00
SPEECH AND DRAMATIC ARTS	N 4 % .60	21 3.13	17 2.54	84 12.54	20 2.99	118 17.61	17 2.54	68 10.15	33 4.93	164 24.48	3 .45	103 15.37	4 .60	14 2.09	670 100.02
FINE ARTS AND MUSIC	N 1 % .19	7 1.35	3 .58	55 10.62	6 1.16	45 8.69	35 6.76	73 14.09	26 5.02	96 18.53	10 1.93	122 23.55	11 2.12	28 5.41	518 100.00
PROFESSIONAL FIELDS	N 5 % .27	30 1.61	53 2.85	200 10.75	13 .70	111 5.97	28 1.51	161 8.66	125 6.72	431 23.17	22 1.18	342 18.39	92 4.95	247 13.28	1,860 100.01
BUSINESS ADMINISTRATION	N 3 % .33	19 2.11	11 1.22	58 6.44	5 .55	71 7.88	7 .78	58 6.44	71 7.88	293 32.52	4 .44	181 20.09	13 1.44	107 11.88	901 100.00
RELIGION AND THEOLOGY	N — % —	4 .73	35 6.36	126 22.91	2 .36	11 2.00	17 3.09	77 14.00	13 2.36	44 8.00	17 3.09	118 21.45	36 6.53	50 9.09	550 99.99
EDUCATION	N 97 % 1.20	303 3.74	215 2.65	886 10.94	476 5.88	1,526 18.84	146 1.80	652 8.05	555 6.85	1,726 21.31	109 1.35	913 11.27	108 1.33	389 4.83	3,101 100.01

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Certain summary statistics from Table 9 show the general pattern. When only the United States institutions are considered, the percentage of doctorate recipients from a given type of baccalaureate source is roughly proportional to the percentage of all undergraduates enrolled in that type of institution:

Type of Baccalaureate-Source Institution	Percentage of all Undergraduates Enrolled (1960)	Percentage of 1964-66 Doctorates Receiving Baccalaureate Degree From This Type of Institution
Baccalaureate—public	4.9	2.4
private	14.1	12.6
Master's —public	20.1	13.2
private	13.0	11.6
Doctorate —public	30.7	35.4
private	17.1	24.7

The totals by type of control divide almost evenly between public and private (43.2 percent and 41.6 percent, respectively); the remainder are foreign institutions.

However, Table 9 reveals some marked field variations from the over-all pattern. Only 2 percent of the religion and theology majors received baccalaureates at large public master's-granting institutions, but 19 percent of the education majors came from these institutions. One third of the elementary particle physicists came from large private institutions, but fewer than one in thirty of the agriculture majors attended such institutions.

Foreign institutions were major baccalaureate sources for many, but not all, fields; 31 percent of the majors in agriculture were foreign, but, in contrast, only 2 percent of the doctorate recipients in speech and dramatic arts were from foreign baccalaureate institutions.

Trends and patterns that occur in the shift from baccalaureate to doctoral institution are displayed in Table 10. Increasing percentages of predoctoral students take graduate work at the smaller public doctorate-granting institutions, and a corresponding drop is occurring in the percentage receiving doctorates at large private institutions.

The transition from baccalaureate to doctoral institution results in a net gain for the public institutions. About two thirds of the students remain in the same general type of institution, going from public to public or private to private. The remaining one third shift from one type to another, but the majority of these go from private to public institution. Thus, 51 percent of the United States doctorate recipients attended public undergraduate institutions, and 59 percent attended public doctoral institutions.

There were no strong sex differences in the patterns of transfer. Women were a little more likely to attend private institutions—only 45 percent came from public undergraduate schools, and 48 percent went to public graduate schools.

Certain patterns of institutional transfer occur as the students progress from baccalaureate to master's to doctoral degree. Tables 11 and 12 (pp. 53-56) show the patterns. A student in pattern A remains in the same institution for all three degrees. One in pattern B remains in a single institution but omits the master's degree. A student in pattern C receives the baccalaureate at one institution and then attends one different graduate school for the master's and doctorate. The remaining patterns for United States doctoral students are indicated in the table. Patterns of doctoral students from foreign countries are shown in G through K.

TABLE 10

Doctorate Recipients by Type of Undergraduate and Doctorate-Granting Institution, FY 1958 - 1966

Type of Undergraduate Institution				Doctorate Recipients by Type of Doctorate-Granting Institution					
Highest Degree	Control	Enroll- ment	Fiscal Years of Doctorate	Public		Private		Inst Type Unknown	Total Doctorate Recipients
				≤8,000	>8,000	≤2,000	>2,000		
TOTAL ALL TYPES			1958-60 N	1,606	12,898	722	12,455	35	27,716
			%	5.79	46.54	2.60	44.94	.13	100.00
			1961-63 N	2,560	16,524	938	14,497	119	34,638
			%	7.39	47.70	2.71	41.85	.34	99.99
			1964-66 N	4,650	23,211	1,319	18,718	593	48,491
			%	9.59	47.87	2.72	38.60	1.22	100.00
BACCALAUREATE	Public	≤1,000	1958-60 N	22	60	1	29	—	112
			%	19.64	53.57	.89	25.89	—	99.99
			1961-63 N	21	75	3	47	1	147
			%	14.29	51.02	2.04	31.97	.68	100.00
			1964-66 N	32	88	1	39	—	160
			%	20.00	55.00	.63	24.38	—	100.01
BACCALAUREATE	Public	>1,000	1958-60 N	28	211	13	144	—	396
			%	7.07	53.28	3.28	36.36	—	99.99
			1961-63 N	55	311	13	180	—	559
			%	9.84	55.64	2.33	32.20	—	100.01
			1964-66 N	111	434	13	272	6	836
			%	13.28	51.91	1.56	32.54	.72	100.01
BACCALAUREATE	Private	≤500	1958-60 N	38	209	17	184	1	449
			%	8.46	46.55	3.79	40.98	.22	100.00
			1961-63 N	49	251	18	238	4	560
			%	8.75	44.82	3.21	42.50	.71	99.99
			1964-66 N	113	387	24	287	18	829
			%	13.63	46.68	2.90	34.62	2.17	100.00
BACCALAUREATE	Private	>500	1958-60 N	129	1,187	47	1,035	6	2,404
			%	5.37	49.38	1.96	43.05	.25	100.01
			1961-63 N	199	1,483	82	1,310	13	3,087
			%	6.45	48.04	2.66	42.44	.42	100.01
			1964-66 N	410	2,149	102	1,643	64	4,368
			%	9.39	49.20	2.34	37.61	1.47	100.01
MASTER'S	Public	≤2,000	1958-60 N	45	235	5	143	—	428
			%	10.51	54.91	1.17	33.41	—	100.00
			1961-63 N	101	340	15	143	—	599
			%	16.86	56.76	2.50	23.87	—	99.99
			1964-66 N	144	469	26	152	5	796
			%	18.09	58.92	3.27	19.10	.63	100.01
MASTER'S	Public	>2,000	1958-60 N	125	1,242	64	1,232	5	2,668
			%	4.69	46.55	2.40	46.18	.19	100.01
			1961-63 N	235	1,564	85	1,451	15	3,350
			%	7.01	46.69	2.54	43.31	.45	100.00
			1964-66 N	468	2,268	123	1,669	94	4,622
			%	10.13	49.07	2.66	36.11	2.03	100.00

TABLE 10
(continued)

Type of Undergraduate Institution				Doctorate Recipients by Type of Doctorate-Granting Institution									
Highest Degree	Control	Enroll- ment	Fiscal Years of Doctorate	Public		Private		Inst Type	Total Doctorate Recipients				
				≤8,000	>8,000	≤2,000	>2,000	Unknown					
MASTER'S	Private	≤1,000	1958-60	N	33	185	25	365	—	608			
				%	5.43	30.43	4.11	60.03	—	100.00			
			1961-63	N	35	259	35	445	3	777			
				%	4.50	33.33	4.50	57.27	.39	99.99			
			1964-66	N	69	331	39	532	16	987			
				%	6.99	33.54	3.95	53.90	1.62	100.00			
			MASTER'S	Private	>1,000	1958-60	N	104	857	56	1,111	6	2,134
							%	4.87	40.16	2.62	52.06	.28	99.99
1961-63	N	151				1,103	83	1,354	15	2,706			
	%	5.58				40.76	3.07	50.04	.55	100.00			
DOCTORATE	Public	≤8,000	1958-60	N	426	897	49	555	2	1,929			
				%	22.08	46.50	2.54	28.77	.10	99.99			
			1961-63	N	688	1,154	57	561	6	2,466			
				%	27.90	46.80	2.31	22.75	.24	100.00			
DOCTORATE	Public	>8,000	1958-60	N	255	4,625	109	1,683	9	6,681			
				%	3.82	69.23	1.63	25.19	.13	100.00			
			1961-63	N	412	5,850	122	1,772	24	8,180			
				%	5.04	71.52	1.49	21.66	.29	100.00			
DOCTORATE	Private	≤2,000	1958-60	N	27	179	96	268	—	570			
				%	4.74	31.40	16.84	47.02	—	100.00			
			1961-63	N	20	203	123	338	4	688			
				%	2.91	29.51	17.88	49.13	.58	100.01			
DOCTORATE	Private	>2,000	1958-60	N	48	323	191	437	8	1,012			
				%	4.74	32.41	18.87	43.18	.79	99.99			
			1961-63	N	169	1,587	162	4,186	4	6,108			
				%	2.77	25.98	2.65	68.53	.07	100.00			
INSTITUTION TYPE UNKNOWN			1961-63	N	247	1,906	202	4,593	10	6,958			
				%	3.55	27.39	2.90	66.01	.14	99.99			
			1964-66	N	404	2,528	276	5,859	78	9,145			
				%	4.42	27.64	3.02	64.07	.85	100.00			
			1958-60	N	4	60	6	122	—	192			
				%	2.08	31.25	3.13	63.54	—	100.00			
			1961-63	N	18	71	4	225	6	324			
				%	5.56	21.91	1.23	69.44	1.85	99.99			
			1964-66	N	38	198	13	539	34	822			
				%	4.62	24.09	1.58	65.57	4.14	100.00			

TABLE 10
(continued)

Type of Undergraduate Institution				Doctorate Recipients by Type of Doctorate-Granting Institution					
Highest Degree	Control	Enroll- ment	Fiscal Year of Doctorate	Public		Private		Inst Type Unknown	Total Doctorate Recipients
				≤8,000	>8,000	≤2,000	>2,000		
FOREIGN INSTITUTION			1958-60 N	201	1,364	72	1,398	2	3,037
			%	6.62	44.91	2.37	46.03	.07	100.00
			1961-63 N	329	1,954	96	1,840	18	4,237
			%	7.76	46.12	2.27	43.43	.42	100.00
			1964-66 N	646	3,095	173	2,561	79	6,554
			%	9.86	47.22	2.64	39.08	1.21	100.01

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 11

Institutional Transfer: Baccalaureate to Master's to Doctorate, 1950, 1958, 1966

Institutional Transfer Pattern			Doctorate Recipients by Year of Degree					
			1950		1958		1966	
			N		N		N	
A.	U.S. Bacc = Master's = Doctorate		845	11.4	1,059	13.5	1,948	12.5
B.	U.S. Bacc = Doctorate	No Master's	348	6.0	316	4.0	574	3.5
C.	U.S. Bacc ≠ Master's = Doctorate		1,847	31.4	2,254	28.6	4,328	28.6
D.	U.S. Bacc ≠ Doctorate	No Master's	1,007	17.2	1,048	13.3	2,450	16.2
E.	U.S. Bacc = Master's ≠ Doctorate		738	12.6	1,275	16.2	2,370	15.6
F.	U.S. Bacc ≠ Master's ≠ Doctorate		1,076	18.4	1,920	24.4	3,482	23.0
TOTAL FROM U.S. BACCALAUREATE INSTITUTIONS			5,856	100.0	7,872	100.0	15,152	100.0
G.	Fgn Bacc ≠ Master's = Doctorate		221	34.0	263	29.3	697	28.5
H.	Fgn Bacc ≠ Doctorate	No Master's	161	24.8	175	19.5	444	18.2
I.	Fgn Bacc ≠ Master's ≠ Doctorate		77	11.8	151	16.9	430	17.6
J.	Fgn Bacc = Master's ≠ Doctorate		156	24.0	229	25.5	601	24.6
K.	Fgn Bacc ≠ Master's ≠ Doctorate		35	5.4	79	8.8	270	11.1
TOTAL FROM FOREIGN BACCALAUREATE INSTITUTIONS			650	100.0	897	100.0	2,442	100.0

Note: The above totals do not include doctorate recipients whose baccalaureate institution was unknown.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 12

Doctorate Recipients by Institutional Transfer Pattern and Field of Doctorate, FY 1966

Doctorate Recipients by Institutional Transfer Pattern*													
Field of Doctorate	U.S. Baccalaureate						Foreign Baccalaureate					Bacc Inst Unknown	Total Doctorate Recipients
	A	B	C	D	E	F	G	H	I	J	K		
TOTAL ALL FIELDS	N 1,948	574	4,328	2,456	2,370	3,482	697	444	430	601	270	271	17,865
	% 10.9	3.2	24.2	13.7	13.3	19.5	3.9	2.4	2.4	3.4	1.5	1.5	100.0
PHYS SCI AND ENGINEERING	N 751	298	1,360	1,250	566	706	325	220	187	241	98	75	6,077
	% 12.4	4.9	22.4	20.6	9.3	11.6	5.3	3.6	3.1	4.0	1.6	1.2	100.0
MATHEMATICS	N 105	30	241	112	63	94	23	30	15	38	8	7	766
	% 13.7	3.9	31.5	14.6	8.2	12.3	3.0	3.9	2.0	5.0	1.0	.9	100.0
PHYSICS AND ASTRONOMY	N 95	82	281	256	58	106	38	34	16	43	12	28	1,049
	% 9.1	7.8	26.8	24.4	5.5	10.1	3.6	3.3	1.5	4.1	1.1	2.7	100.0
Elementary Particles	N 12	13	36	59	3	12	4	9	2	9	1	1	161
	% 7.4	8.1	22.4	36.7	1.9	7.4	2.5	5.6	1.2	5.6	.6	.6	100.0
Solid State	N 21	17	84	75	22	37	12	6	7	9	5	—	295
	% 7.1	5.8	28.5	25.4	7.5	12.5	4.1	2.0	2.4	3.0	1.7	—	100.0
CHEMISTRY	N 33	103	248	709	108	133	44	78	31	63	16	14	1,580
	% 2.1	6.5	15.7	44.9	6.8	8.4	2.8	4.9	2.0	4.0	1.0	.9	100.0
Organic	N 7	35	90	321	42	56	10	30	18	26	6	—	641
	% 1.1	5.5	14.0	50.1	6.5	8.7	1.6	4.7	2.8	4.1	.9	—	100.0
Physical	N 5	37	65	206	22	37	9	24	5	10	4	1	425
	% 1.2	8.7	15.3	48.5	5.2	8.7	2.1	5.6	1.2	2.4	.9	.2	100.0
EARTH SCIENCES	N 31	15	101	53	61	71	19	13	7	16	5	7	399
	% 7.8	3.8	25.3	13.3	15.3	17.3	4.8	3.3	1.7	4.0	1.2	1.7	100.0
ENGINEERING	N 487	68	489	120	276	302	201	65	118	81	57	19	2,283
	% 21.3	3.0	21.4	5.3	12.1	13.2	8.8	2.9	5.2	3.5	2.5	.8	100.0
Chemical	N 64	31	91	45	40	32	21	11	10	14	—	3	362
	% 17.7	8.6	25.1	12.4	11.1	8.8	5.8	3.0	2.8	3.9	—	.8	100.0
Electrical	N 118	5	107	9	41	68	43	10	23	19	18	8	469
	% 25.2	1.1	22.8	1.9	8.7	14.5	9.2	2.1	4.9	4.1	3.8	1.7	100.0

TABLE 12
(continued)

Doctorate Recipients by Institutional Transfer Pattern*

Field of Doctorate	U.S. Baccalaureate						Foreign Baccalaureate						Bacc Inst		Total Doctorate Recipients
	A	B	C	D	E	F	G	H	I	J	K	Unknown			
<u>BIOLOGICAL SCIENCES</u>	N 264	114	580	455	399	442	142	113	87	179	75	19	2,869		
	% 9.2	4.0	20.2	15.9	13.9	15.4	5.0	3.9	3.0	6.2	2.6	.7	100.0		
AGRICULTURE AND FORESTRY	N 69	11	107	18	112	68	62	16	32	52	24	1	572		
	% 12.1	1.9	18.7	3.1	19.6	11.9	10.8	2.8	5.6	9.1	4.2	.2	100.0		
HEALTH SCIENCES	N 34	11	48	38	52	52	23	17	10	20	7	4	316		
	% 10.7	3.5	15.2	12.0	16.5	16.5	7.3	5.4	3.1	6.3	2.2	1.3	100.0		
BIOCHEM, BIOPHYS, PHYSIOL	N 54	52	148	210	64	116	23	41	20	49	21	6	804		
	% 6.7	6.5	18.4	26.1	8.0	14.4	2.9	5.1	2.5	6.1	2.6	.7	100.0		
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	N 63	22	149	106	87	102	21	30	18	40	19	2	659		
	% 9.6	3.3	22.6	16.1	13.2	15.5	3.2	4.5	2.7	6.1	2.9	.3	100.0		
ECOLOGY, HYDROBIOLOGY	N 2	1	16	4	9	6	3	1	1	3	—	—	46		
	% 4.3	2.2	34.8	8.7	19.6	13.0	6.5	2.2	2.2	6.5	—	—	100.0		
BOTANY, ZOOLOGY, GENERAL BIOLOGY	N 42	17	112	79	75	98	10	8	6	15	4	6	472		
	% 8.9	3.6	23.7	16.7	15.9	20.8	2.1	1.7	1.3	3.2	.9	1.3	100.0		
<u>SOCIAL SCIENCES</u>	N 269	86	720	404	311	490	101	52	60	91	41	41	2,666		
	% 10.1	3.2	27.0	15.2	11.7	18.4	3.8	2.0	2.2	3.4	1.5	1.5	100.0		
PSYCHOLOGY	N 122	38	335	205	134	224	16	18	9	16	7	9	1,133		
	% 10.8	3.3	29.6	18.1	11.8	19.8	1.4	1.6	.8	1.4	.6	.8	100.0		
ANTHROPOLOGY AND ARCHEOLOGY	N 8	8	30	15	11	15	5	5	2	5	1	4	109		
	% 7.3	7.3	27.5	13.8	10.1	13.8	4.6	4.6	1.8	4.6	.9	3.7	100.0		
SOCIOLOGY	N 33	8	82	23	26	47	10	—	12	8	5	4	258		
	% 12.8	3.1	31.8	8.9	10.0	18.2	3.9	—	4.7	3.1	1.9	1.6	100.0		
ECONOMICS AND ECONOMETRICS	N 69	22	108	104	92	71	50	23	21	38	16	8	622		
	% 11.1	3.5	17.4	16.7	14.8	11.4	8.0	3.7	3.4	6.1	2.6	1.3	100.0		
POLIT SCI AND INT RELAT	N 32	8	133	54	29	75	17	5	10	17	6	15	401		
	% 8.0	2.0	33.2	13.5	7.2	18.7	4.2	1.3	2.5	4.2	1.5	3.7	100.0		

TABLE 12
(continue(f))

Doctorate Recipients by Institutional Transfer Pattern*

	U.S. Baccalaureate						Foreign Baccalaureate						Bacc Inst Unknown		Total Doctorate Recipients
	A	B	C	D	E	F	G	H	I	J	K				
<u>ARTS AND HUMANITIES</u>	N	223	55	781	207	338	598	65	39	42	46	27	76	2,497	
	%	8.9	2.2	31.3	8.3	13.5	24.0	2.6	1.6	1.7	1.8	1.1	3.0	100.0	
HISTORY	N	69	11	230	53	70	142	20	7	5	8	4	25	644	
	%	10.7	1.7	35.7	8.2	10.9	22.1	3.1	1.1	.8	1.2	.6	3.9	100.0	
ENGLISH AND AMERICAN LANG AND LIT	N	41	10	256	38	93	178	9	5	7	9	4	16	666	
	%	6.2	1.5	38.4	5.7	14.0	26.7	1.4	.7	1.0	1.4	.6	2.4	100.0	
MODERN FOREIGN LANG AND LIT	N	51	19	106	62	51	82	23	19	23	17	11	14	478	
	%	10.7	4.0	22.2	13.0	10.7	17.1	4.8	4.0	4.8	3.5	2.3	2.9	100.0	
CLASSIC LANG AND LIT	N	8	1	21	6	5	16	5	—	1	4	3	1	71	
	%	11.3	1.4	29.6	8.5	7.0	22.6	7.0	—	1.4	5.6	4.2	1.4	100.0	
PHILOSOPHY	N	19	9	57	33	24	28	5	3	1	4	1	15	199	
	%	9.6	4.5	28.6	16.6	12.1	14.1	2.5	1.5	.5	2.0	.5	7.5	100.0	
SPEECH AND DRAMATIC ARTS	N	21	2	60	10	55	83	—	2	3	2	2	—	240	
	%	8.8	.8	25.0	4.2	22.9	34.6	—	.8	1.3	.8	.8	—	100.0	
FINE ARTS AND MUSIC	N	14	2	46	4	34	61	3	3	1	2	2	4	176	
	%	8.0	1.1	26.1	2.3	19.3	34.7	1.7	1.7	.6	1.1	1.1	2.3	100.0	
<u>PROFESSIONAL FIELDS</u>	N	59	15	150	79	118	171	28	12	23	16	7	52	730	
	%	8.1	2.1	20.6	10.8	16.2	23.4	3.8	1.6	3.1	2.2	1.0	7.1	100.0	
BUSINESS ADMINISTRATION	N	48	4	93	7	87	86	13	4	12	6	5	5	370	
	%	13.0	1.1	25.1	1.9	23.5	23.2	3.5	1.1	3.2	1.6	1.4	1.4	100.0	
RELIGION AND THEOLOGY	N	5	7	35	62	13	44	2	5	3	3	2	7	188	
	%	2.7	3.7	18.6	32.9	6.9	23.4	1.1	2.7	1.6	1.6	1.1	3.7	100.0	
<u>EDUCATION</u>	N	382	6	737	55	638	1,075	36	8	31	28	22	8	3,026	
	%	12.6	.2	24.4	1.8	21.1	35.5	1.2	.3	1.0	.9	.7	.3	100.0	

*The institutional transfer patterns (A through K) are defined in Table 11.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

There has been considerable stability in the patterns from 1950 until 1966, the most popular being C. About 20 percent of the science and 10 percent of the nonscience doctorate recipients omit the master's degree (B and D). Approximately one seventh of the students receive all degrees from the same institution (A and B). Table 12 reveals the characteristically large field variations from the average pattern.

PARENTAL EDUCATION

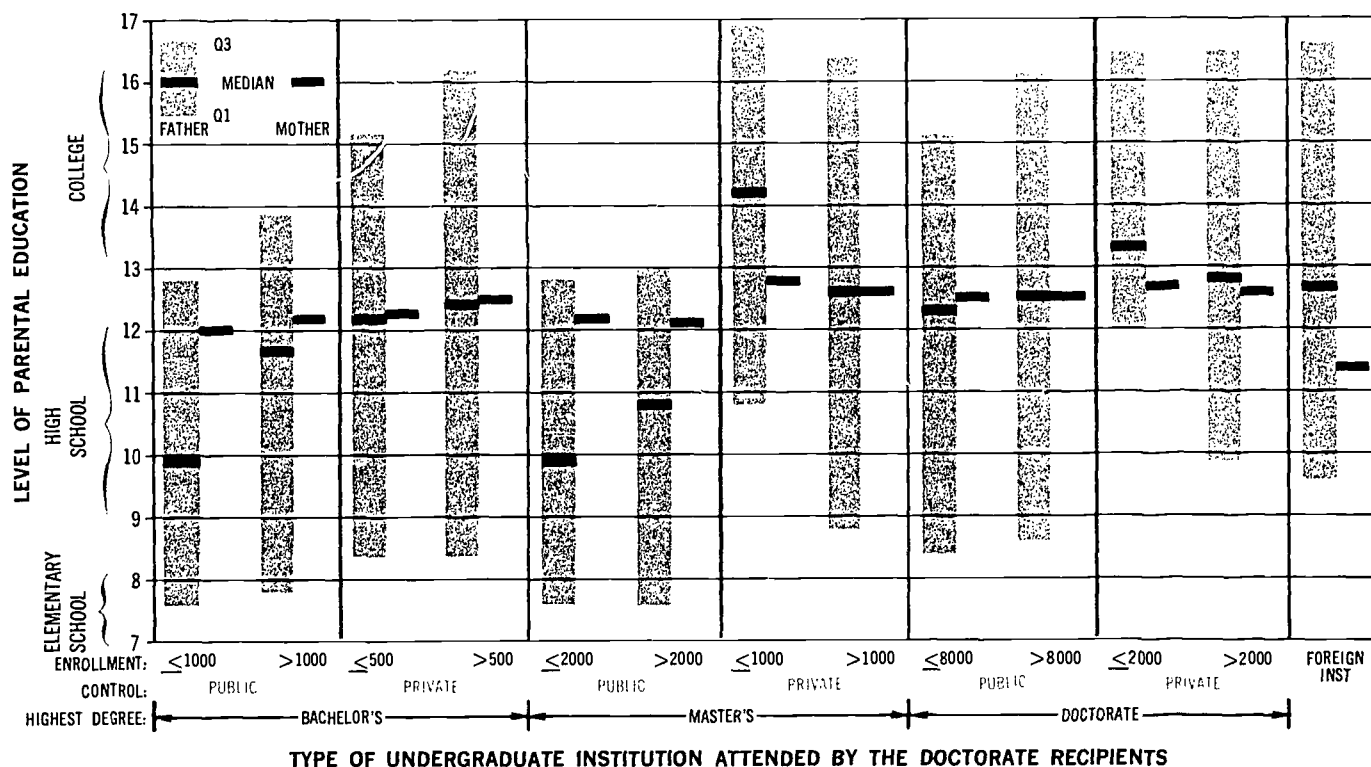
Figures 12 and 13 indicate the relation between the educational level of the parents of the doctorate recipient and his choice of undergraduate institution and doctoral field. The bottom line on each bar represents the first quartile (one fourth of the parents had less than this amount of education); the middle line represents the median or second quartile (one half had less than this amount of education); the top line shows the third quartile (one fourth had more than this amount of formal education).

Figure 12 shows a marked relation between parental education and the type of undergraduate institution attended by the doctorate recipient. Parents of those who attended public undergraduate institutions had less formal education than parents whose children attended private institutions. These differences occur in comparisons between mothers as well as fathers.

In contrast, there is little apparent relation between parents' education and the doctoral student's choice of field (Figure 13). The one notable exception is education, in which the fathers' years of formal schooling were significantly lower.

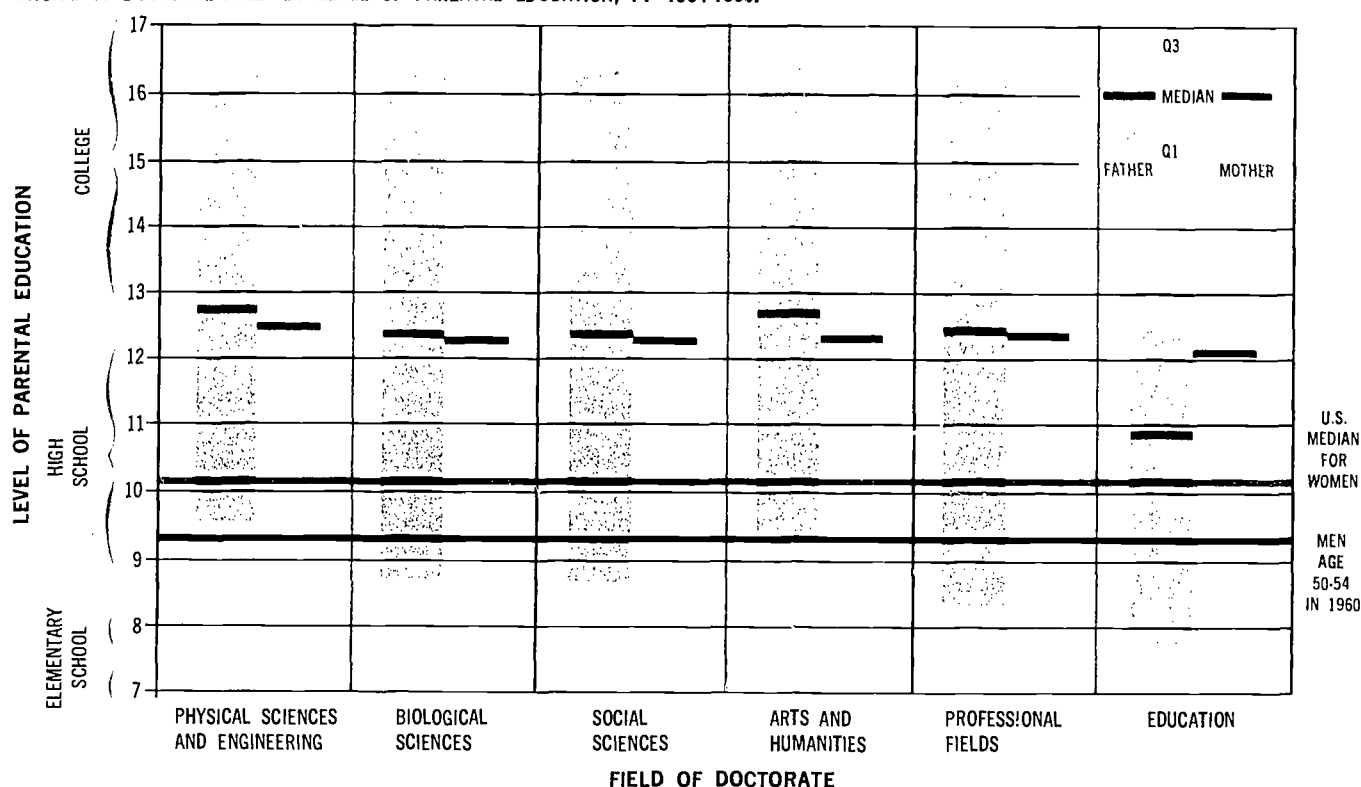
In both figures the over-all median education for fathers and for mothers was about 12th grade, but the education of the fathers shows greater variability than that of the mothers. This variability is displayed graphically by the length of the bar between the first and third quartiles.

FIGURE 12
CHOICE OF UNDERGRADUATE INSTITUTION BY LEVEL OF PARENTAL EDUCATION, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 13
CHOICE OF DOCTORAL FIELD BY LEVEL OF PARENTAL EDUCATION, FY 1964-1966.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
U.S. Bureau of the Census, *U.S. Census of Population: 1960. Detailed Characteristics*. (Final Report, PC (1)-1D), Table 173, pp. 1-405.

Figure 13 compares the median parental education of doctorate holders with the median of all United States men and women 50 - 54 years old. The parents of the doctorate recipients have more formal education, and they show less sex difference in education than the total United States group.

DOCTORAL ADVISEES PER ADVISER

When filling out the Survey of Earned Doctorates questionnaire, the doctorate recipient supplies the name of his major adviser. This information is used to compile an index of advisees per major adviser. The data in Table 13 show the number of doctoral advisees completing doctoral requirements per year per major adviser. The tabulations are broken by field. The ratios were compiled by counting the average number of doctorates granted per year in each field from FY 1964 - 1966 and dividing by the number of different advisers in each field who were named during the three-year period.

The ratio varies from 0.53 for the biological sciences to 0.99 for education. The average for all fields is 2 doctorates in three years for each person who served as a major adviser.

CORRELATES OF INSTI- TUTION SIZE

Many factors interact to determine the number and variety of graduate programs offered at an institution, the number of graduate students enrolled at the institution, and the number of doctorates granted. Institution size is not a perfect predictor of any of the above, but it does have some interesting correlations. The following pages present data showing some of the correlates of institution size.

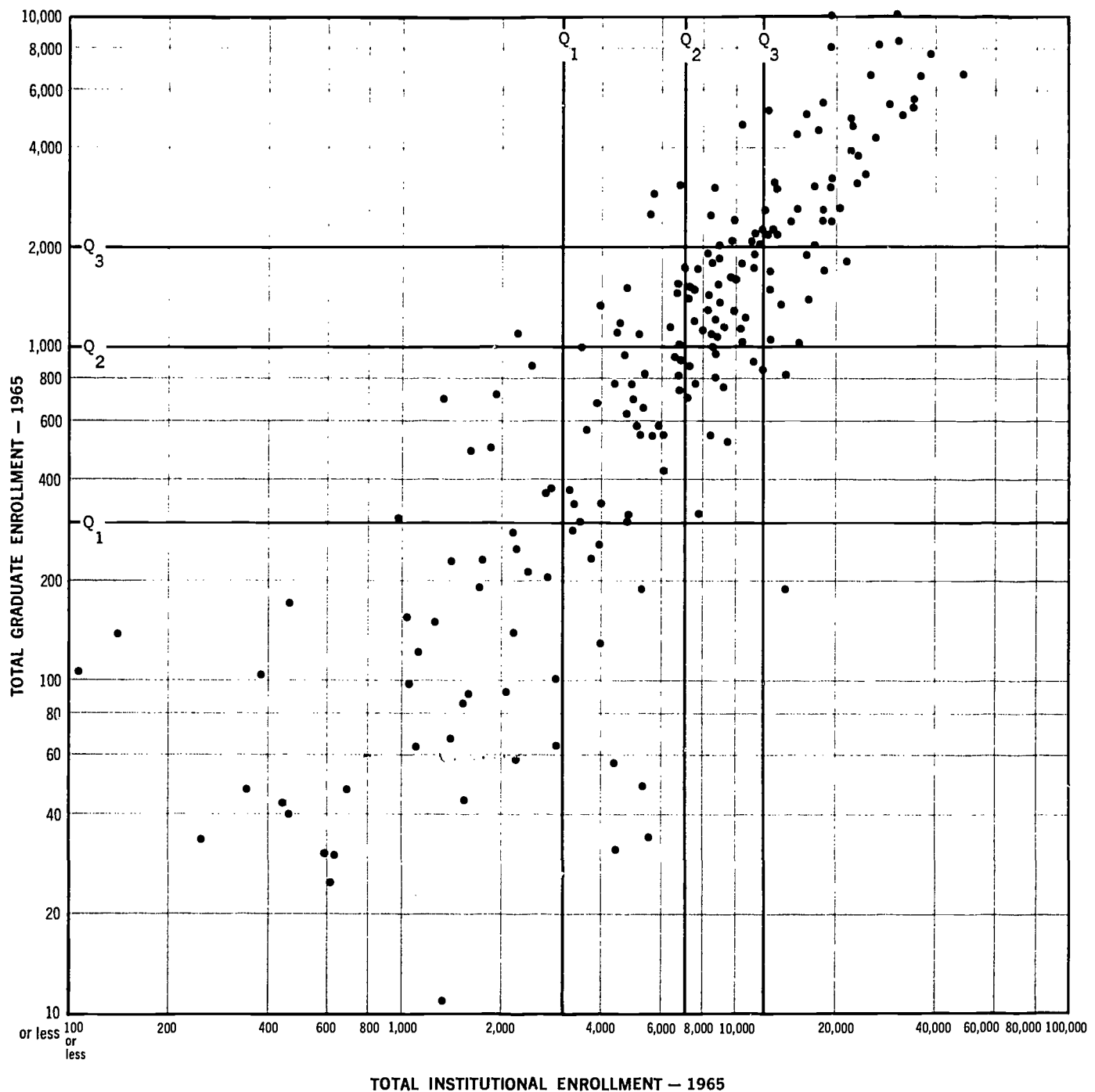
TABLE 13

Number of Doctorate Recipients per Major Adviser, by Field of Doctorate, FY 1964 - 1966

Field of Doctorate	Number of Doctorate Recipients - Major Adviser Known	Number of Major Advisers	Doctorate Recipients per Major Adviser per 3-yr Period	Number of Doctorate Recipients - Major Adviser Unknown	Total Doctorate Recipients FY 1964- 66
<u>TOTAL ALL FIELDS</u>	<u>43,263</u>	<u>21,477</u>	<u>2.01</u>	<u>5,228</u>	<u>48,491</u>
<u>PHYSICAL SCIENCES AND ENG</u>	<u>14,796</u>	<u>7,189</u>	<u>2.06</u>	<u>1,671</u>	<u>16,467</u>
MATHEMATICS	1,841	1,018	1.81	199	2,040
PHYSICS AND ASTRONOMY	2,629	1,455	1.81	330	2,959
CHEMISTRY	3,993	1,623	2.46	377	4,370
EARTH SCIENCES	980	547	1.79	105	1,085
ENGINEERING	5,353	2,546	2.10	660	6,013
<u>BIOLOGICAL SCIENCES</u>	<u>7,104</u>	<u>4,433</u>	<u>1.60</u>	<u>807</u>	<u>7,911</u>
AGRICULTURE AND FORESTRY	1,524	949	1.61	141	1,665
HEALTH SCIENCES	752	513	1.47	104	856
OTHER BIOLOGICAL SCIENCES	4,828	2,971	1.63	562	5,390
<u>SOCIAL SCIENCES</u>	<u>6,479</u>	<u>3,444</u>	<u>1.88</u>	<u>868</u>	<u>7,347</u>
PSYCHOLOGY	2,788	1,348	2.07	313	3,101
ANTHROPOLOGY AND ARCHEOLOGY	265	161	1.65	29	294
SOCIOLOGY	624	368	1.70	74	698
ECONOMICS AND ECONOMETRICS	1,470	805	1.83	239	1,709
POLIT SCI AND INT RELAT	965	532	1.81	163	1,128
OTHER SOCIAL SCIENCES	367	230	1.60	50	417
<u>ARTS AND HUMANITIES</u>	<u>6,054</u>	<u>3,079</u>	<u>1.97</u>	<u>751</u>	<u>6,805</u>
HISTORY	1,572	779	2.02	207	1,779
LANGUAGE AND LITERATURE	2,935	1,480	1.98	371	3,306
FINE ARTS AND MUSIC	461	255	1.81	57	518
OTHER ARTS AND HUMANITIES	1,086	565	1.92	116	1,202
<u>PROFESSIONAL FIELDS</u>	<u>1,564</u>	<u>890</u>	<u>1.76</u>	<u>296</u>	<u>1,860</u>
BUSINESS ADMINISTRATION	778	475	1.64	123	901
RELIGION AND THEOLOGY	473	224	2.11	77	550
OTHER PROFESSIONAL FIELDS	313	191	1.64	96	409
<u>EDUCATION</u>	<u>7,266</u>	<u>2,442</u>	<u>2.98</u>	<u>835</u>	<u>8,101</u>

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Figure 14
 Doctorate-Granting Institutions By Graduate Enrollment and By Total Institutional Enrollment, 1965.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
 USOE, *Education Directory, 1964-65, Part 3, Higher Education* (OE - 50000 - 65)

Graduate Enrollment

The relation between total institution enrollment and total graduate enrollment in United States doctorate-granting institutions is shown in Figure 14. The graduate enrollments used comprised all graduate students—full- and part-time—including those who intended to terminate with a master's degree as well as those planning to obtain a doctorate.

Figure 14 shows a scattergram of black dots, each dot representing one doctorate-granting institution. Each axis of the figure consists of a three-cycle logarithmic scale indicating total enrollment (horizontal) or graduate enrollment (vertical). The three black vertical lines (Q_1 , Q_2 , Q_3) divide the institutions into four groups by total enrollment, each group having the same number of institutions. Likewise, the three black horizontal lines (Q_1 , Q_2 , Q_3) divide the institutions into four equal groups by graduate enrollment.

The data indicate that the larger institutions have a higher percentage of graduate students among their enrollment. Doctorate-granting institutions with total enrollments less than 3,000 classify about 10 percent of their total student population as graduate students; institutions with enrollment between 3,000 and 12,000 have about 15 percent graduate students; and those with enrollments over 12,000 have about 20 percent graduate enrollment.

Number of Doctoral Fields

Figure 15 shows the relation between the number of academic fields in which doctorates are granted at an institution and the total graduate enrollment of the institution. The horizontal axis shows total graduate enrollment on a logarithmic scale, and the vertical axis indicates the number of doctoral fields on a linear scale. The maximum number of fields possible was 26. Each dot of the scattergram represents one institution. The overlay grid of Q_1 , Q_2 , Q_3 lines is interpreted as in Figure 14.

As a rough approximation, it appears there are about 100 graduate students per doctoral field at an institution. The data in Figure 15 show that the median number of doctoral fields for institutions with graduate enrollment greater than 2,000 is 21. Institutions with graduate enrollments between 1,000 and 2,000 have a median of thirteen doctoral fields; those with 300 - 1,000 have a median of seven fields; and those with fewer than 300 graduate students have a median of three doctoral fields. Graduate enrollment places an obvious top limit on numbers of doctoral fields offered in an institution, and most of the largest institutions (more than 2,000 graduate students) have a minimum of seventeen doctoral fields.

Graduate Enrollment and Doctorates Granted

Figure 16 shows the United States doctoral institutions distributed by first-year graduate enrollment in FY 1961 and numbers of doctorates granted five years later in FY 1966. Both axes are logarithmic scales, and the Q_1 , Q_2 , Q_3 grid overlay is interpreted as in Figures 14 and 15.

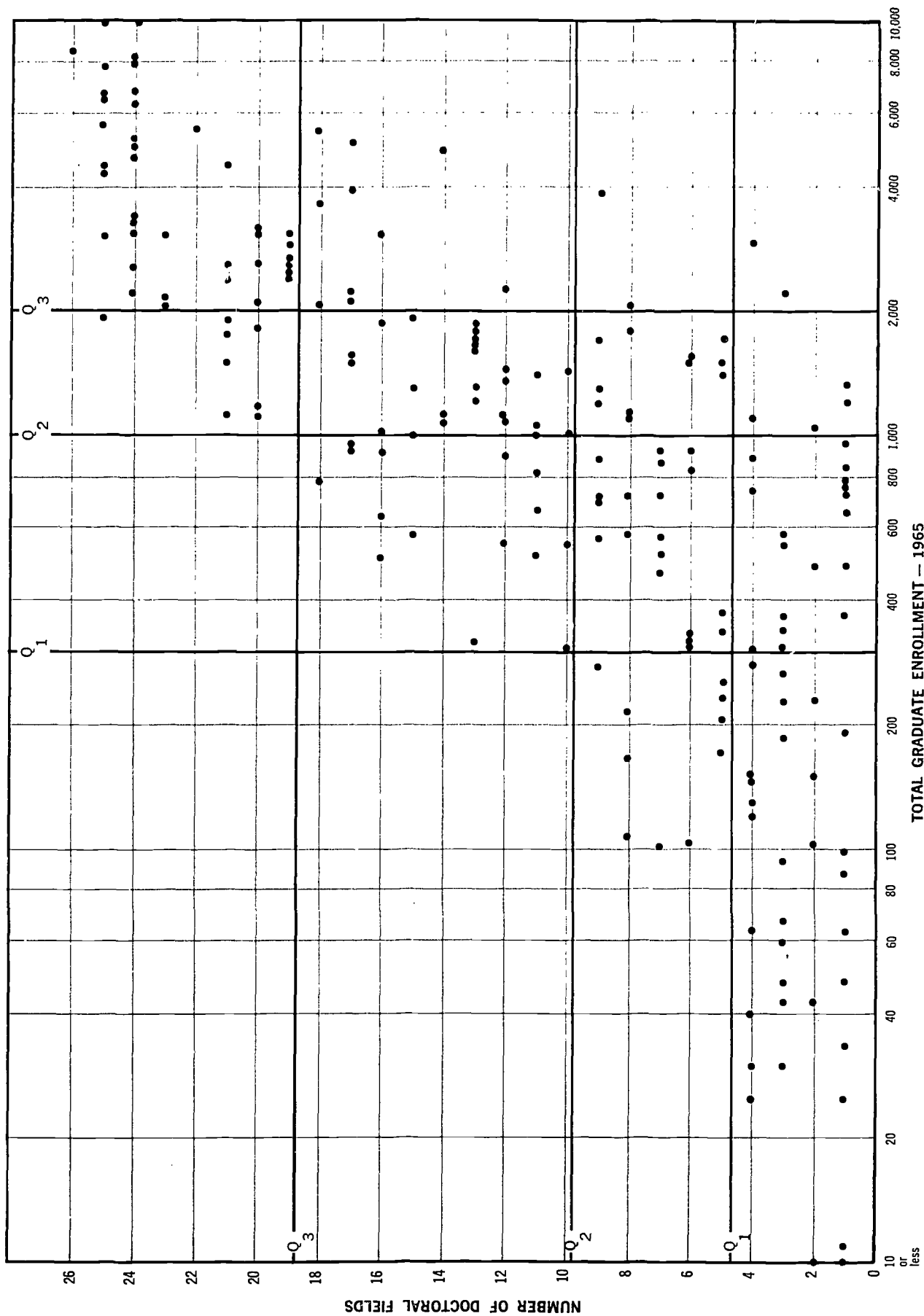
The data indicate an output of about 1 doctorate per 10 first-year graduate enrollments five years before. The largest institutions, with first-year enrollments greater than 900, grant about 250 doctorates per year. Those with enrollments between 400 and 900 grant about 60 doctorates per year; institutions with 200 - 400 enrollments grant about 40 per year; and those with fewer than 200 grant about 7 doctorates per year. The variation from these averages is large.

Total institution enrollment relates also to the science - nonscience ratio in doctoral programs in the institution. Small universities, offering few doctoral programs, do not provide the balance between humanities and science that characterize the larger universities. Figure 17 shows the relation.

Fifty percent of the institutions with total enrollment less than 6,000 granted over 90 percent of their doctorates in science fields and twenty-one percent of the group granted less than 10 percent of their doctorates in science. The small institution tends to be "all or nothing at all" in its science - nonscience balance.

In contrast, 82 percent of the institutions with enrollments greater than 6,000 (and all institutions of 17,000 or more) had a ratio of science doctorates to all doctorates falling between 0.30 and 0.79.

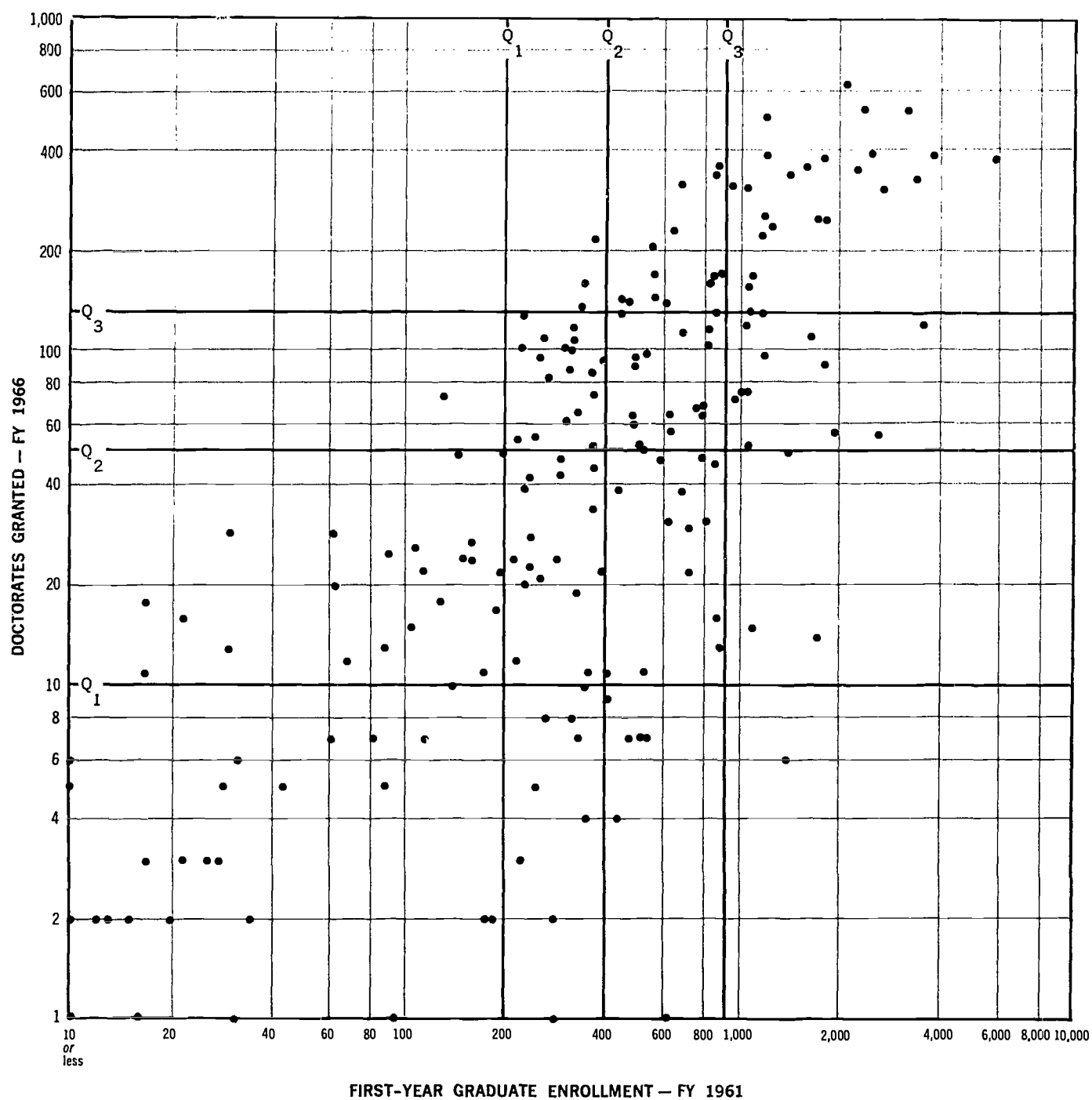
Figure 15
Doctorate-Granting Institutions By Number of Doctoral Fields and By Total Graduate Enrollment, 1965.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File. USOE, Education Directory, 1964-65, Part 3, Higher Education (OE - 50000 - 65)

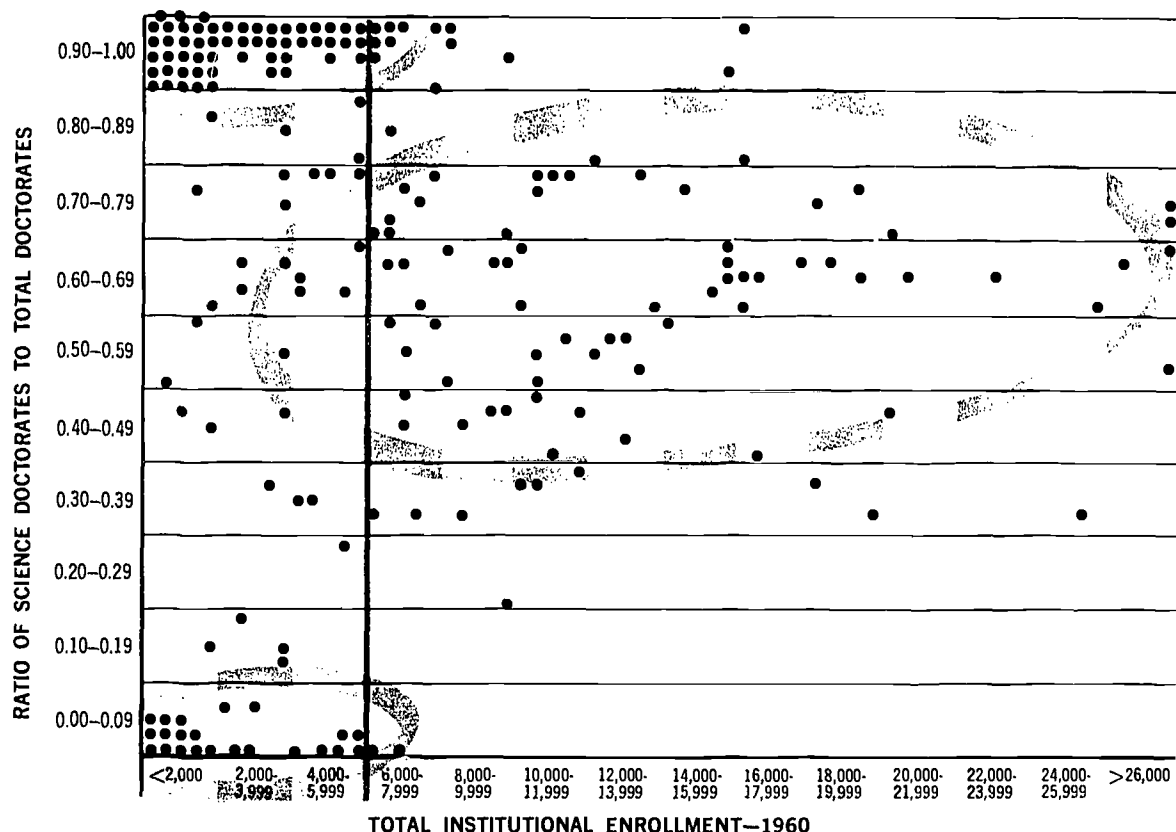
Figure 16

Doctorate-Granting Institutions By First-Year Graduate Enrollment and By Number of Doctorate Recipients Five Years Later.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
 USOE, *Enrollment for Advanced Degrees: Fall 1960*, Table 15, p. 29
 (OE-54019-60)

FIGURE 17
DOCTORATE-GRANTING INSTITUTIONS BY RATIO OF SCIENCE DOCTORATES TO TOTAL GRANTED 1960-1966 AND TOTAL INSTITUTIONAL ENROLLMENT IN 1960.



Sources: NRC, Office of Scientific Personnel, Doctorate Records File.
USOE, Education Directory, 1959-60: Part 3, Higher Education (OE-50000).

CORRELATES OF BACCALAUREATE- TO-DOCTORATE TIME LAPSE

One very important aspect of the doctoral education process is the time required to complete the job or the time lapse from receipt of baccalaureate to completion of doctorate. Most fellowship programs have as a major goal the reduction of the baccalaureate-to-doctorate time span. A number of factors are often assumed to be related to time lapse, such as the doctoral field, the type of undergraduate institution, and the amount of institutional transfer. This section displays data showing the relation of the above factors to time lapse.

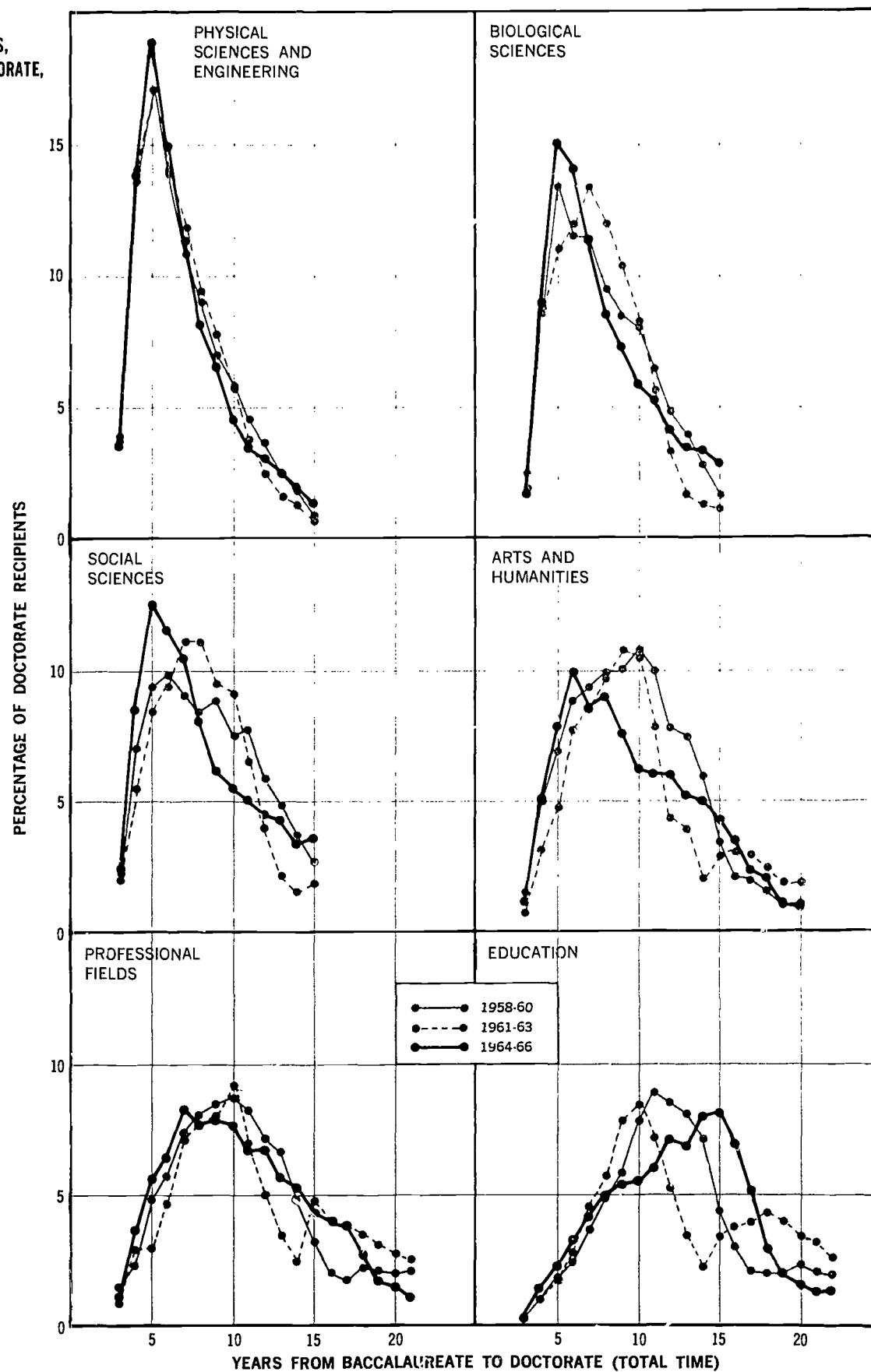
The data report two kinds of "time"—the total calendar time elapsed between year of baccalaureate and year of doctorate and the total time registered in a university. The latter does not distinguish between full time and part time, but it measures the total time the student was officially registered and working on his graduate program.

Field Effects

Figure 18 and Table 14 show baccalaureate-to-doctorate time lapse by field for three 3-year periods. Both Total Time and Total Registered Time are tabulated. Most of the broad fields show decreases of about one-half year in Total Time to the doctorate when the medians of FY 1958 - 1960 and FY 1964 - 1966 are compared. The exceptions are physical sciences, which show no change, and education, which shows an increase in time lapse. The data reveal no corresponding decreases in Registered Time. This has remained about constant for all broad fields.

The data show large field differences in total baccalaureate-to-doctorate time. The physical sciences have the shortest median time of 6.3 years in 1964 - 1966, and education has the longest with 13.8 years. However, these differences are reduced sharply when using total registered time to 5.1 years for physical sciences and 6.8 years for education.

FIGURE 18
TIME-LAPSE DISTRIBUTIONS,
BACCALAUREATE TO DOCTORATE,
BY FIELD,
FY 1958-1960, 1961-1963,
1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 14

Time Lapse, Baccalaureate to Doctorate, Trends by Field, FY 1958 - 1960, 1961 - 1963, 1964 - 1966

Field of Doctorate	Fiscal Year of Doctorate	Median Years from Baccalaureate to Doctorate	
		Total Time	Registered Time
<u>TOTAL ALL FIELDS</u>	1958-60	8.6 yrs	5.2 yrs
	1961-63	8.8	5.3
	1964-66	<u>8.2</u>	<u>5.4</u>
<u>PHYSICAL SCIENCES AND ENGINEERING</u>	1958-60	6.6	4.9
	1961-63	6.6	5.0
	1964-66	<u>6.3</u>	<u>5.1</u>
MATHEMATICS	1958-60	7.0	5.1
	1961-63	7.1	5.1
	1964-66	5.9	5.0
PHYSICS AND ASTRONOMY	1958-60	6.7	5.4
	1961-63	6.8	5.6
	1964-66	6.4	5.6
Elementary Particles	1958-60	6.1	5.2
	1961-63	6.2	5.5
	1964-66	5.9	5.3
Solid State	1958-60	6.7	5.6
	1961-63	7.0	5.8
	1964-66	6.6	5.8
CHEMISTRY	1958-60	5.7	4.6
	1961-63	5.8	4.8
	1964-66	5.6	4.8
Organic	1958-60	5.5	4.6
	1961-63	5.5	4.6
	1964-66	5.2	4.6
Physical	1958-60	5.8	4.7
	1961-63	5.9	4.9
	1964-66	5.9	4.9
EARTH SCIENCES	1958-60	7.5	4.6
	1961-63	7.8	5.0
	1964-66	7.6	5.5
ENGINEERING	1958-60	7.2	4.9
	1961-63	7.0	5.0
	1964-66	6.9	5.1
Chemical	1958-60	6.3	4.7
	1961-63	6.1	4.6
	1964-66	5.9	4.7
Electrical	1958-60	7.7	5.1
	1961-63	6.3	5.1
	1964-66	6.8	5.3

TABLE 14

(continued)

Field of Doctorate	Fiscal Year of Doctorate	Median Years from Baccalaureate to Doctorate	
		Total Time	Registered Time
<u>BIOLOGICAL SCIENCES</u>	1958-60	7.7 yrs	5.1 yrs
	1961-63	7.8	5.2
	1964-66	<u>7.3</u>	<u>5.3</u>
AGRICULTURE AND FORESTRY	1958-60	7.4	4.6
	1961-63	7.7	4.9
	1964-66	7.8	5.1
HEALTH SCIENCES	1958-60	8.0	5.0
	1961-63	9.1	5.4
	1964-66	8.6	5.6
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	1958-60	7.3	5.3
	1961-63	7.1	5.2
	1964-66	6.8	5.3
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	1958-60	7.7	5.1
	1961-63	8.0	5.3
	1964-66	7.3	5.3
ECOLOGY, HYDROBIOLOGY	1958-60	7.8	5.7
	1961-63	8.1	5.2
	1964-66	7.3	5.3
BOTANY, ZOOLOGY, GENERAL BIOLOGY	1958-60	8.0	5.3
	1961-63	7.8	5.5
	1964-66	7.2	5.4
<u>SOCIAL SCIENCES</u>	1958-60	8.7	5.2
	1961-63	8.9	5.3
	1964-66	<u>8.0</u>	<u>5.3</u>
PSYCHOLOGY	1958-60	7.9	5.6
	1961-63	7.9	5.5
	1964-66	7.1	5.5
ANTHROPOLOGY AND ARCHEOLOGY	1958-60	8.8	5.0
	1961-63	10.1	5.4
	1964-66	9.3	5.5
SOCIOLOGY	1958-60	9.6	5.3
	1961-63	9.9	6.0
	1964-66	9.1	5.8
ECONOMICS AND ECONOMETRICS	1958-60	9.0	4.7
	1961-63	9.0	4.9
	1964-66	7.9	4.9
POLITICAL SCIENCE, INT RELATIONS	1958-60	9.8	5.0
	1961-63	9.2	5.1
	1964-66	8.6	5.3

TABLE 14
(continued)

Field of Doctorate	Fiscal Year of Doctorate	<u>Median Years from Baccalaureate to Doctorate</u>	
		Total Time	Registered Time
<u>ARTS AND HUMANITIES</u>	1958-60	9.9 yrs	5.7 yrs
	1961-63	10.1	5.7
	1964-66	<u>9.5</u>	<u>5.7</u>
HISTORY	1958-60	9.7	5.7
	1961-63	9.6	5.6
	1964-66	8.9	5.7
ENGLISH AND AMERICAN LANG AND LIT	1958-60	9.9	5.8
	1961-63	10.3	5.9
	1964-66	9.7	5.9
MODERN FOREIGN LANG AND LIT	1958-60	10.2	6.0
	1961-63	10.1	5.8
	1964-66	9.5	5.7
CLASSIC LANGUAGES AND LITERATURE	1958-60	8.0	5.3
	1961-63	9.7	5.6
	1964-66	8.3	5.6
PHILOSOPHY	1958-60	8.8	5.7
	1961-63	9.2	5.7
	1964-66	7.6	5.4
SPEECH AND DRAMATIC ARTS	1958-60	9.6	5.2
	1961-63	10.0	5.1
	1964-66	10.4	5.2
FINE ARTS AND MUSIC	1958-60	10.9	5.3
	1961-63	11.4	5.6
	1964-66	12.2	6.0
<u>PROFESSIONAL FIELDS</u>	1958-60	11.3	6.1
	1961-63	10.8	5.9
	1964-66	<u>10.8</u>	<u>6.0</u>
BUSINESS ADMINISTRATION	1958-60	10.1	5.1
	1961-63	9.9	5.1
	1964-66	9.6	5.3
RELIGION AND THEOLOGY	1958-60	11.4	7.1
	1961-63	10.8	7.1
	1964-66	11.6	7.2
<u>EDUCATION</u>	1958-60	14.0	6.6
	1961-63	13.0	6.6
	1964-66	<u>12.8</u>	<u>6.8</u>

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

The shapes of the distributions in Figure 18 tell the same story. The sharp peaks of the science curves at 5 years reflect the fact that most of these students start graduate work almost immediately after the baccalaureate and obtain the doctorate in about 5 years. The broad, less well-defined, distributions of the other fields indicate longer breaks in the formal education pattern and perhaps more part-time study.

Time lapse varies by sex. Comparisons of the baccalaureate-to-doctorate time for men with that for women are presented in Chapter V.

With the exception of the modest trend noted in total time, the majority of the patterns seem reasonably stable over the past nine years. The remaining tables in this section concentrate on the FY 1964 - 1966 data.

Figure 19 and the associated Table 15 break the total baccalaureate-to-doctorate time lapse into its components: receipt of the baccalaureate to the beginning of graduate work, the beginning of graduate work to the master's degree, and the master's degree to the doctorate. It is important to recall that these statistics apply to persons who have successfully completed doctoral work, and they may not be applicable to the general graduate-school population.

TABLE 15

Time Lapse, Baccalaureate to Graduate School to Master's to Doctorate, by Field, FY 1964 - 1966

Field of Doctorate	Median Years from				
	Bacc to Grad School Entry (total time)	Grad School to Master's (total time)	Master's to Doctorate (total time)	Baccalaureate to Doctorate	
				Total Time	Registered Time
<u>TOTAL ALL FIELDS</u>	<u>0.3 yrs</u>	<u>2.0 yrs</u>	<u>5.2 yrs</u>	<u>8.2 yrs</u>	<u>5.4 yrs</u>
<u>PHYSICAL SCIENCES AND ENG</u>	<u>0.2</u>	<u>2.0</u>	<u>4.1</u>	<u>6.3</u>	<u>5.1</u>
MATHEMATICS	0.1	1.9	3.9	5.9	5.0
PHYSICS AND ASTRONOMY	0.1	2.0	4.3	6.4	5.6
Elementary Particles	0.1	2.0	4.0	5.9	5.3
Solid State	0.1	2.0	4.6	6.6	5.8
CHEMISTRY	0.1	2.2	3.9	5.6	4.3
Organic	0.1	2.2	3.8	5.2	4.6
Physical	0.1	2.2	4.1	5.9	4.9
EARTH SCIENCES	0.2	2.1	4.7	7.6	5.5
ENGINEERING	0.3	1.9	4.1	6.9	5.1
Chemical	0.3	1.9	3.7	5.9	4.7
Electrical	0.2	1.8	4.1	6.8	5.3
<u>BIOLOGICAL SCIENCES</u>	<u>0.3</u>	<u>2.1</u>	<u>4.3</u>	<u>7.3</u>	<u>5.3</u>
AGRICULTURE AND FORESTRY	0.4	2.0	4.2	7.8	5.1
HEALTH SCIENCES	0.4	2.3	4.8	8.6	5.6
BIOCHEM, BIOPHYS, PHYSIOL, BIostatist	0.2	2.2	4.3	6.8	5.3

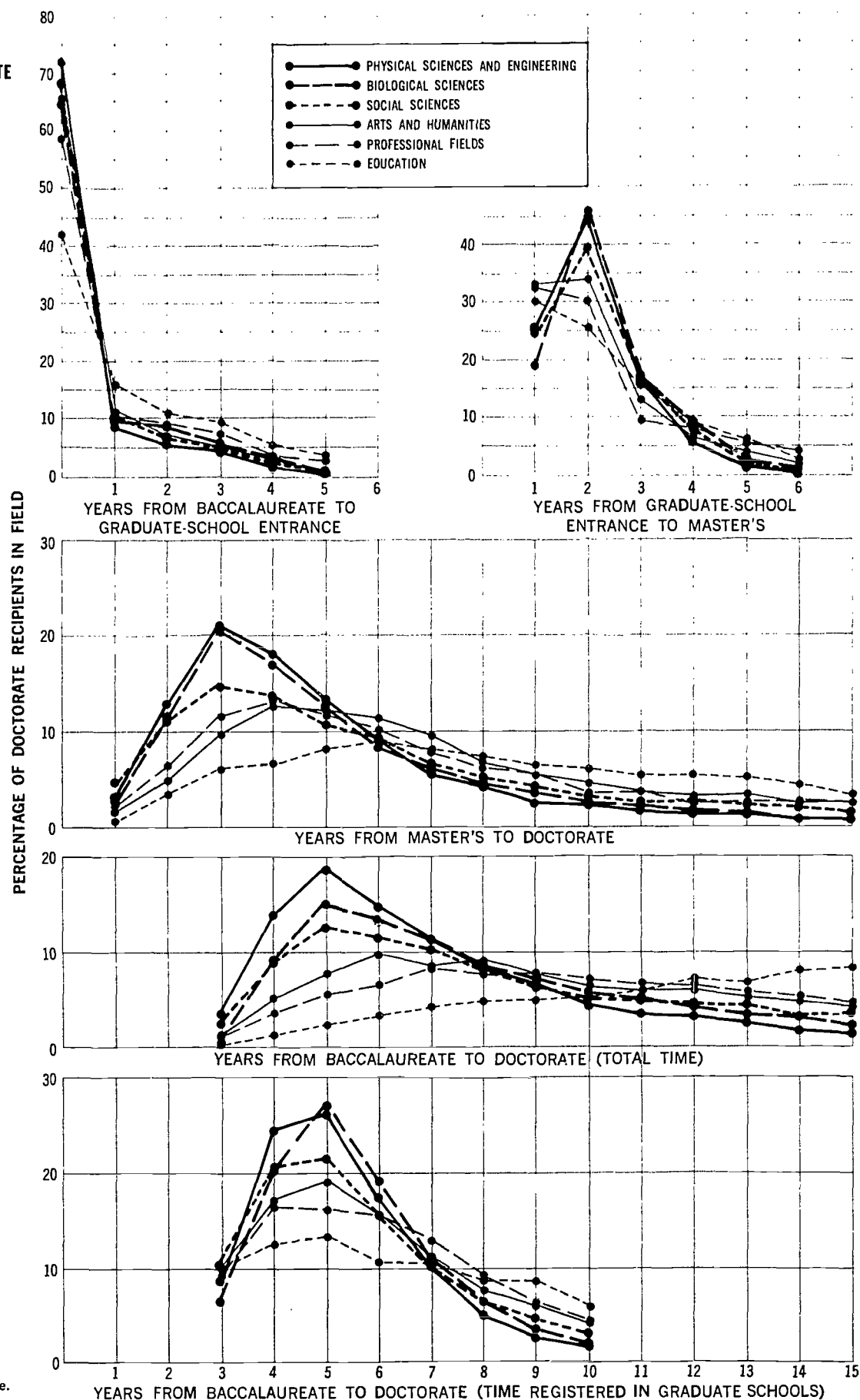
TABLE 15
(continued)

Field of Doctorate	Median Years from				
	Bacc to Grad School Entry (total time)	Grad School to Master's (total time)	Master's to Doctorate (total time)	Baccalaureate to Doctorate	
				Total Time	Registered Time
ANAT, CYTOL, ENTOMOL, GENET	0.3 yrs.	2.1 yrs.	4.3 yrs.	7.3 yrs.	5.3 yrs.
ECOLOGY, HYDROBIOLOGY	0.3	2.3	4.5	7.3	5.3
BOTANY, ZOOLOGY, BIOL, GEN BIOL	0.2	2.2	4.3	7.2	5.4
<u>SOCIAL SCIENCES</u>	<u>0.2</u>	<u>2.1</u>	<u>5.0</u>	<u>8.0</u>	<u>5.3</u>
PSYCHOLOGY	0.2	2.1	4.2	7.1	5.5
ANTHROPOLOGY AND ARCHEOLOGY	0.3	2.2	5.6	9.3	5.5
SOCIOLOGY	0.2	2.2	5.3	9.1	5.8
ECON AND ECONOMETRICS	0.3	2.0	5.2	7.9	4.9
POLIT SCI AND INT RELATIONS	0.2	2.0	5.5	8.6	5.3
<u>ARTS AND HUMANITIES</u>	<u>0.3</u>	<u>1.9</u>	<u>6.2</u>	<u>9.5</u>	<u>5.7</u>
HISTORY	0.3	1.9	5.8	8.9	5.7
ENGLISH AND AMERICAN LANG AND LIT	0.3	1.9	6.6	9.7	5.9
MODERN FOREIGN LANG AND LIT	0.3	2.0	6.2	9.5	5.7
CLASSIC LANG AND LITERATURE	0.2	2.0	5.6	8.3	5.6
PHILOSOPHY	0.2	2.3	4.7	7.6	5.4
SPEECH AND DRAMATIC ARTS	0.3	1.8	6.7	10.4	5.2
FINE ARTS AND MUSIC	0.3	2.0	8.8	12.2	6.0
<u>PROFESSIONAL FIELDS</u>	<u>0.4</u>	<u>2.0</u>	<u>5.9</u>	<u>10.8</u>	<u>6.0</u>
BUSINESS ADMINISTRATION	0.4	1.7	5.7	9.6	5.3
RELIGION AND THEOLOGY	0.1	4.3	5.8	11.6	7.2
<u>EDUCATION</u>	<u>1.0</u>	<u>2.2</u>	<u>8.4</u>	<u>13.8</u>	<u>6.8</u>

Note: The sum of the medians of the component time lapse will not in general equal the total time lapse.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 19
TIME-LAPSE DISTRIBUTIONS,
BACCALAUREATE TO GRADUATE
SCHOOL TO MASTER'S TO
DOCTORATE, BY FIELD,
FY 1964-1966.



Source: NRC, Office of Scientific
Personnel, Doctorate Records File.

At least two thirds of the students in fields other than the professions and education started graduate work immediately upon completion of the baccalaureate (time lapse = 0). The modal time from beginning graduate work to the master's degree was 2 years for all but professional fields and education; and the modal master's-to-doctorate time was 3 years in the sciences and more than this for the other fields. The sum of the modal times can be compared with the modal baccalaureate-to-doctorate time lapse of 5 or 6 years.

The field differences, which are especially evident in professional fields and education, are largely erased if one uses registered time instead of total time (see the last diagram in Figure 19).

Table 15 shows the median times for each field. The substitution of one descriptive statistic (a median) for a total distribution sacrifices much detail, but this procedure is necessary to provide information for 26 fields.

Type of Undergraduate Institution

It is sometimes assumed in academic circles that time lapse is affected by type of undergraduate institution—that the person coming from the nondoctoral undergraduate institution who achieves the doctorate will take longer to complete the doctoral program. Extensive analysis of the time-lapse data fails to support this belief. Figure 20 and Table 16 summarize the analysis.

Inspection of the figure and the medians shows that the time-lapse patterns, when equated for broad field, do not reveal marked advantages for any type of baccalaureate institution. It should be emphasized that these data refer only to those who were successful in the doctoral program. Perhaps the type of undergraduate institution affects success rates or other aspects of the doctoral program, but it has no great effect on time lapse for those who succeed in achieving the doctorate.

In addition to the data presented above, each of the broad field distributions was analyzed to see if some aspect of the distribution other than the median was related to the type of undergraduate institution. For instance, an analysis was made for each baccalaureate type and each broad field to check the percentage of those who completed the doctorate within 5 years, on the assumption that the undergraduate effect, if it existed, would be more visible for those who went through quickly. The following data show in summary form the general results of the analysis:

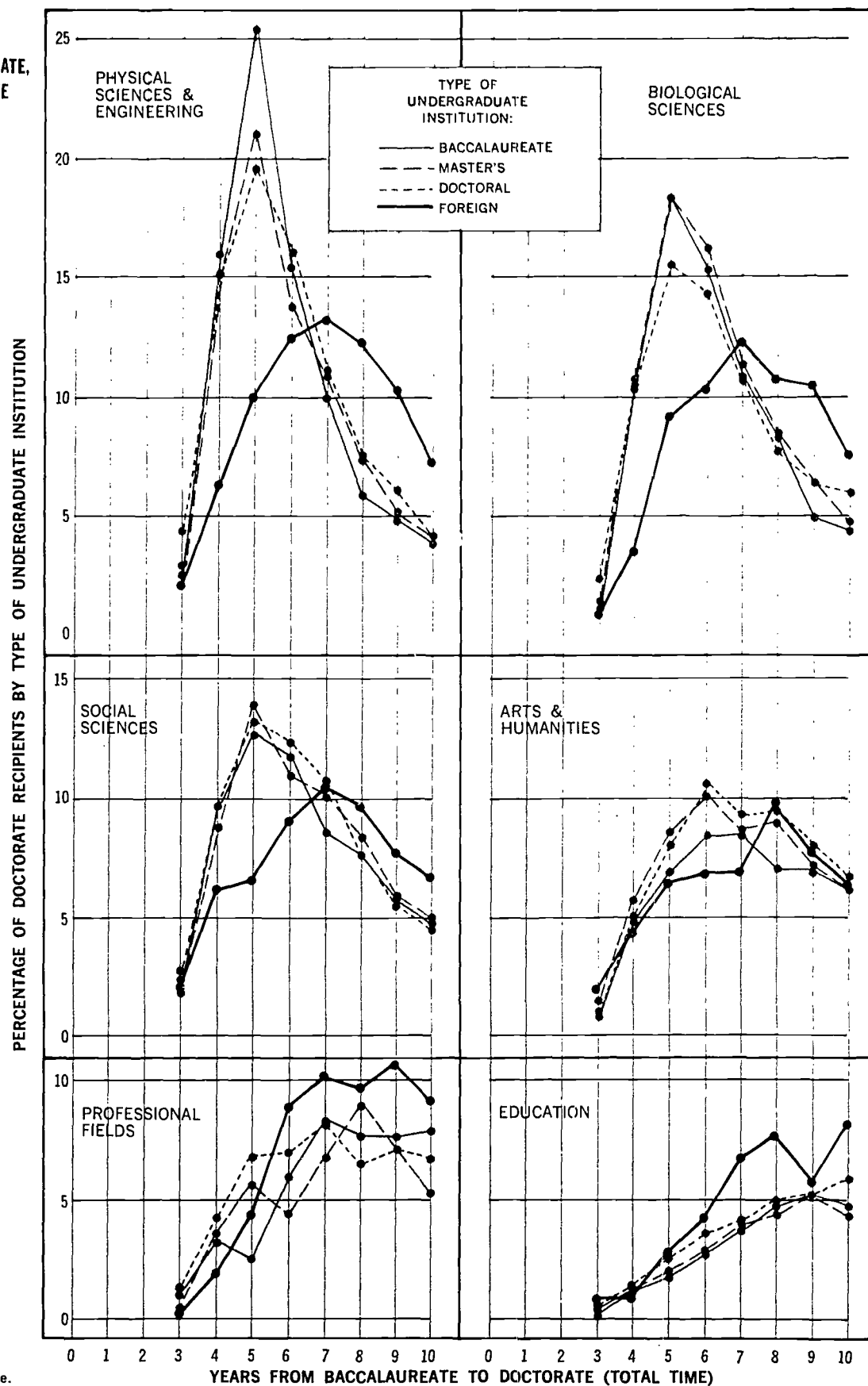
Type of Baccalaureate Institution	Percentage Finishing in Five Years (total time)					
	PS	BS	SS	A&H	Prof.	Educ.
Baccalaureate-granting	43	30	24	13	7	3
Master's-granting	40	31	25	15	10	4
Doctorate-granting	40	29	25	15	13	5

The professional fields and education show some advantage for the doctorate-granting institutions, but the sciences and humanities show no effect.

A similar analysis was made based on registered time, and it likewise failed to show any marked advantage for a particular type of baccalaureate source. The preceding analyses were based on the 1,294 United States institutions that had been baccalaureate sources to at least one doctorate. The USOE Education Directory lists 1,543 institutions in the United States that granted bachelor's or higher degrees during the academic year 1965 - 1966, so the baccalaureate source institutions constitute 84 percent of all baccalaureate institutions.

It should be noted that in Table 16 the longer time lapse of students from foreign baccalaureate institutions does not occur if one uses registered time instead of total time. Apparently many foreign students take longer to begin graduate school than do the United States students.

FIGURE 20
TIME-LAPSE DISTRIBUTIONS,
BACCALAUREATE TO DOCTORATE,
BY TYPE OF UNDERGRADUATE
INSTITUTION AND FIELD,
FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 16

Time Lapse, Baccalaureate to Doctorate, by Type of Undergraduate Institution and Field, FY 1964 - 1966

Field of Doctorate	Median Years from Baccalaureate to Doctorate by Type of Undergraduate Institution											
	Baccalaureate			Master's			Doctorate			Foreign		
	Public		Private	Public		Private	Public		Private	Bacc		Total
	≤1,000	>1,000	≤500	≤2,000	>2,000	≤1,000	≤8,000	>8,000	≤2,000	Inst	All	Types
TOTAL ALL FIELDS	11.9	10.8	10.1	8.4	11.6	9.4	7.8	8.1	7.8	6.8	7.4	8.2
Total Time Registered Time	5.9	5.4	5.8	5.5	5.7	5.9	5.5	5.2	5.3	5.3	5.4	5.4
PHYS SCIENCES AND ENG	—	8.2	6.2	5.7	6.9	6.6	5.8	6.5	6.2	5.8	6.0	6.3
Total Time Registered Time	—	4.8	5.3	5.0	5.0	5.3	5.1	5.1	5.1	5.0	5.0	5.1
MATHEMATICS	—	—	8.8	6.0	5.2	6.2	6.0	5.9	5.8	5.1	5.4	5.9
Total Time Registered Time	—	—	6.0	5.2	4.9	5.2	5.2	4.9	5.1	4.4	4.9	5.0
PHYSICS AND ASTRONOMY	—	9.7	7.0	6.3	—	6.9	6.1	6.4	6.2	5.6	6.1	6.4
Total Time Registered Time	—	5.2	5.7	5.8	—	6.0	5.6	5.6	5.6	5.1	5.4	5.6
Elementary Particles	—	—	—	—	—	—	5.4	—	5.9	5.7	5.7	5.9
Total Time Registered Time	—	—	—	—	—	—	5.2	—	5.3	5.6	5.1	5.3
Solid State	—	—	—	6.2	—	6.9	6.2	6.3	6.6	5.8	6.2	6.6
Total Time Registered Time	—	—	—	5.7	—	6.3	5.8	5.6	5.9	5.1	5.7	5.8
CHEMISTRY	—	5.3	5.7	5.2	7.3	5.9	5.1	5.3	5.2	5.2	5.3	5.6
Total Time Registered Time	—	4.7	5.0	4.7	5.3	4.9	4.7	4.7	4.7	4.6	4.7	4.8
Organic	—	—	5.1	5.0	—	5.6	5.1	5.0	5.0	5.0	5.3	5.2
Total Time Registered Time	—	—	4.7	4.6	—	4.8	4.3	4.3	4.3	4.6	4.7	4.6
Physical	—	—	—	5.8	—	6.4	5.3	5.6	5.6	5.2	5.6	5.9
Total Time Registered Time	—	—	—	5.0	—	5.1	4.8	4.8	4.9	4.4	4.8	4.9
EARTH SCIENCES	—	—	—	7.8	—	7.9	6.7	8.5	7.4	6.5	7.8	7.6
Total Time Registered Time	—	—	—	5.9	—	6.1	5.5	5.4	5.5	5.0	5.5	5.5
ENGINEERING	—	10.3	—	5.4	—	7.6	6.3	7.2	6.5	7.0	6.3	6.9
Total Time Registered Time	—	4.4	—	5.0	—	5.7	5.3	5.1	5.1	5.3	5.0	5.1
Chemical	—	—	—	5.0	—	6.0	5.8	6.3	5.4	6.0	5.4	5.9
Total Time Registered Time	—	—	—	4.6	—	4.7	4.6	5.0	4.6	4.4	4.7	4.7
Electrical	—	—	—	5.4	—	7.7	6.2	7.0	6.8	—	6.1	6.8
Total Time Registered Time	—	—	—	5.1	—	6.6	5.2	5.3	5.5	—	5.2	5.3

TABLE 16
(continued)

Median Years from Baccalaureate to Doctorate by Type of Undergraduate Institution														
Field of Doctorate	Baccalaureate			Master's			Doctorate			Foreign Bacc Inst	Total All Types			
	Public	Private	≤1,000	Public	Private	≤1,000	Public	Private	≤2,000			>2,000		
	>1,000	>500	>500	>2,000	>2,000	>2,000	>8,000	>8,000	>2,000	>2,000				
BIOLOGICAL SCIENCES	Total Time	6.6	7.2	6.8	6.8	6.9	6.3	6.6	7.4	7.1	5.8	6.9	8.7	7.3
	Registered Time	—	5.3	5.7	5.3	5.1	5.3	5.4	5.3	5.3	5.2	5.6	5.1	5.3
		6.6	—	7.2	—	5.9	—	—	7.7	7.0	—	8.8	8.7	7.8
AGRICULTURE AND FORESTRY	Registered Time	—	5.7	—	5.2	—	4.7	—	5.3	5.1	—	5.8	4.8	5.1
	Total Time	—	—	—	9.0	—	—	6.3	7.8	8.6	5.8	9.6	9.3	8.6
HEALTH SCIENCES	Registered Time	—	—	—	5.6	—	5.7	—	5.3	5.5	5.6	6.0	5.6	5.6
	Total Time	—	—	6.6	6.2	—	6.9	5.8	6.6	6.6	5.5	6.2	8.2	6.8
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	Registered Time	—	—	5.4	5.3	—	5.6	5.1	5.2	5.2	4.9	5.6	5.2	5.3
	Total Time	—	—	8.1	7.0	—	7.0	6.2	7.2	7.9	6.1	6.9	9.1	7.3
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	Registered Time	—	—	5.8	5.4	—	5.5	5.3	5.7	5.4	5.7	5.4	5.2	5.3
	Total Time	—	—	—	—	—	—	—	7.6	—	—	—	—	7.3
ECOLOGY, HYDROBIOLOGY	Registered Time	—	—	—	—	—	—	—	—	5.2	—	—	—	5.3
	Total Time	—	6.3	8.3	7.0	7.3	6.8	5.5	6.8	7.6	7.4	—	6.2	7.2
BOTANY, ZOOLOGY, GENERAL BIOLOGY	Registered Time	—	5.3	6.1	5.3	5.1	5.3	5.1	5.3	5.7	5.8	—	5.3	5.4
	Total Time	—	10.6	9.0	7.8	9.7	8.2	8.6	7.0	7.8	7.5	7.1	7.9	8.0
SOCIAL SCIENCES	Registered Time	—	4.9	5.8	5.2	4.8	5.9	5.4	5.1	5.0	5.3	5.7	5.3	5.3
	Total Time	—	—	10.7	7.1	—	7.7	8.0	6.6	6.7	6.6	7.0	7.1	7.1
PSYCHOLOGY	Registered Time	—	—	6.5	5.3	—	6.2	5.6	5.3	5.1	5.3	5.5	5.2	5.5
	Total Time	—	—	—	—	—	—	—	—	7.8	—	10.1	11.2	9.3
ANTHROPOLOGY AND ARCHEOLOGY	Registered Time	—	—	—	—	—	—	—	—	—	—	5.9	5.7	5.5
	Total Time	—	—	—	9.7	—	10.0	—	8.5	8.2	8.1	9.1	11.0	9.1
SOCIOLOGY	Registered Time	—	—	—	5.9	—	6.2	—	5.2	5.2	5.8	—	6.1	5.8
	Total Time	—	—	—	7.8	—	7.4	7.5	6.7	7.4	7.8	—	8.0	7.9
ECONOMICS AND ECONOMETRICS	Registered Time	—	—	—	4.9	—	4.9	4.7	4.7	4.8	5.0	—	4.8	4.9
	Total Time	—	—	—	—	—	—	—	—	—	—	8.0	8.9	7.9
POLIT SCI, INT RELAT	Registered Time	—	—	—	—	—	—	—	—	—	—	4.8	5.1	4.9
	Total Time	—	15.0	—	8.3	—	8.7	8.5	7.7	9.8	8.7	7.9	10.5	8.6
	Registered Time	—	5.1	—	5.0	—	5.7	5.5	4.9	5.3	5.3	—	6.0	5.3

TABLE 16
(continued)

Median Years from Baccalaureate to Doctorate by Type of Undergraduate Institution												
Field of Doctorate	Baccalaureate			Master's			Doctorate			Foreign Bacc Inst	Total All Types	
	Public	Private	>500	Public	<2,000	>2,000	Public	<8,000	>8,000			
	<1,000	>1,000	<500	>500	<2,000	>2,000	<1,000	>1,000	<2,000	>2,000		
ARTS AND HUMANITIES												
Total Time Registered Time	10.9	10.7	10.1	9.5	9.2	10.0	9.3	9.5	8.9	9.0	9.5	
	5.5	5.7	5.7	5.2	5.9	5.6	5.6	5.7	5.9	5.8	5.7	
HISTORY												
Total Time Registered Time	10.5	9.1	9.3	—	8.1	8.9	8.2	9.0	9.1	8.7	8.9	
	5.3	6.0	5.6	—	5.6	5.6	5.6	5.7	6.0	5.9	5.7	
ENGLISH AND AMERICAN LANG AND LIT												
Total Time Registered Time	11.3	11.3	10.3	—	9.0	10.7	9.6	10.7	8.3	9.1	9.7	
	5.9	5.8	5.9	—	6.3	6.6	5.7	5.9	5.7	5.8	5.9	
MODERN FOREIGN LANG AND LIT												
Total Time Registered Time	—	—	10.3	—	9.9	—	10.0	9.3	7.3	8.9	9.5	
	—	—	5.9	—	6.2	—	5.3	5.5	5.6	5.9	5.7	
CLASSIC LANG AND LIT												
Total Time Registered Time	—	—	12.0	—	—	—	8.7	—	—	8.0	8.3	
	—	—	5.3	—	—	—	5.7	—	—	5.6	5.6	
PHILOSOPHY												
Total Time Registered Time	—	—	7.2	—	—	9.0	7.1	—	—	7.3	7.6	
	—	—	5.6	—	—	5.5	4.9	—	—	5.4	5.4	
SPEECH AND DRAMATIC ARTS												
Total Time Registered Time	—	—	10.3	—	9.3	—	10.5	9.3	10.3	—	10.4	
	—	—	5.3	—	5.2	—	5.0	5.5	5.2	—	5.2	
FINE ARTS AND MUSIC												
Total Time Registered Time	—	—	14.3	—	11.7	14.0	11.8	13.9	12.0	—	12.2	
	—	—	6.9	—	7.1	5.3	6.0	5.7	6.1	—	6.0	
PROFESSIONAL FIELDS												
Total Time Registered Time	15.3	10.2	11.5	14.2	12.1	10.5	10.9	10.7	10.1	—	10.8	
	5.3	6.3	7.0	8.5	6.0	6.7	6.7	4.8	5.5	—	6.0	
BUSINESS ADMINISTRATION												
Total Time Registered Time	—	—	9.1	—	9.7	—	10.7	9.6	9.4	—	9.6	
	—	—	5.1	—	5.9	—	5.6	4.5	5.2	—	5.3	
RELIGION AND THEOLOGY												
Total Time Registered Time	—	—	11.1	—	—	—	10.7	—	—	—	11.6	
	—	—	7.0	—	—	—	7.2	—	7.5	—	7.3	
EDUCATION												
Total Time Registered Time	13.0	13.3	15.0	14.2	13.6	13.7	14.3	12.5	13.5	14.8	13.8	
	7.0	6.8	6.5	7.2	6.3	7.0	7.2	5.9	6.6	7.3	6.8	

Note: Medians were not calculated for types with less than 25 doctorate recipients.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Time lapse is affected by the amount of institutional transfer during graduate work and by the decision to take a master's degree. Table 17 shows the relations.

Students who omit the master's degree finish their doctoral work sooner, whether the time lapse is measured by total time or registered time. This is true for both United States and foreign students and holds for almost all broad fields (see patterns B, D, and H).

Students who receive each degree at a different institution take the longest time to complete their work. This is true for almost all broad fields and for total time and registered time (see patterns F and K).

The above relation may be caused by different student abilities in the different patterns, but no data exist to verify this guess.

Strangely, the shortest route is not increasing in popularity. There is no significant increase in the percentage of doctoral students who bypass the master's degree (see Tables 11 and 12).

TABLE 17

Time Lapse, Baccalaureate to Doctorate, by Institutional Transfer Pattern and Field, FY 1964 - 1966

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Institutional Transfer Pattern*										
		U.S. Baccalaureate						Foreign Baccalaureate				
		A	B	C	D	E	F	G	H	I	J	K
<u>TOTAL ALL FIELDS</u>	Total Time	7.3	5.4	7.5	5.6	9.8	11.8	7.9	7.0	9.7	9.3	10.4
	Registered Time	<u>5.4</u>	<u>4.7</u>	<u>5.3</u>	<u>4.8</u>	<u>5.9</u>	<u>6.3</u>	<u>4.9</u>	<u>4.3</u>	<u>5.7</u>	<u>5.7</u>	<u>5.9</u>
<u>PHYSICAL SCIENCES AND ENGINEERING</u>	Total Time	5.9	5.0	6.0	5.1	7.6	8.9	7.3	6.6	9.1	8.6	9.2
	Registered Time	<u>5.1</u>	<u>4.3</u>	<u>5.1</u>	<u>4.6</u>	<u>5.7</u>	<u>6.1</u>	<u>4.8</u>	<u>4.2</u>	<u>5.7</u>	<u>5.7</u>	<u>6.1</u>
MATHEMATICS	Total Time	5.3	4.6	5.4	4.8	7.2	8.8	6.8	5.3	9.5	8.6	9.7
	Registered Time	4.9	4.1	4.9	4.3	5.4	6.2	4.1	3.7	5.5	5.1	—
PHYSICS AND ASTRONOMY	Total Time	5.9	5.2	6.2	5.8	7.7	9.0	7.4	6.6	10.0	9.0	9.7
	Registered Time	5.4	5.0	5.6	5.2	6.4	6.8	5.1	4.9	5.9	6.4	6.8
Elementary Particles	Total Time	5.8	5.2	5.4	5.6	6.7	7.7	—	6.6	—	—	—
	Registered Time	5.6	5.0	5.1	5.1	6.2	6.8	—	4.7	—	—	—
Solid State	Total Time	6.1	5.7	6.3	5.0	7.1	9.3	7.3	—	—	9.7	—
	Registered Time	5.4	5.5	5.7	5.2	6.3	6.9	5.1	—	—	6.5	—
CHEMISTRY	Total Time	6.3	5.0	5.4	4.9	7.1	9.0	7.4	6.6	9.2	8.7	10.3
	Registered Time	5.2	4.2	4.8	4.3	5.8	6.0	5.0	4.2	6.1	5.8	6.1
Organic	Total Time	5.2	4.8	5.2	4.8	6.9	7.8	7.0	6.3	9.3	9.0	—
	Registered Time	4.8	4.0	4.8	4.0	5.7	5.9	4.6	4.1	6.1	6.0	—
Physical	Total Time	6.5	5.3	5.8	5.2	7.6	10.0	—	7.1	—	8.2	—
	Registered Time	5.6	4.6	4.9	4.7	6.2	6.3	—	4.2	—	5.9	—
EARTH SCIENCES	Total Time	7.3	6.2	7.6	6.0	7.9	8.3	7.2	6.8	—	8.8	8.2
	Registered Time	5.3	4.7	5.6	5.0	5.7	6.0	5.0	4.3	—	5.8	6.0
ENGINEERING	Total Time	5.9	5.0	6.2	5.2	7.9	9.1	7.3	6.9	8.9	8.2	8.9
	Registered Time	5.0	4.1	5.0	4.3	5.5	5.9	4.8	4.2	5.6	5.2	5.8
Chemical	Total Time	5.7	4.9	5.4	4.7	6.8	8.6	7.3	—	8.3	8.1	—
	Registered Time	4.8	4.1	4.7	4.1	5.1	5.8	5.0	—	5.5	5.1	—
Electrical	Total Time	5.9	—	6.1	—	8.0	8.2	6.5	6.8	8.6	8.0	8.5
	Registered Time	5.2	—	5.1	—	5.9	6.1	4.7	3.8	5.5	5.5	5.8

TABLE 17
(continued)

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Institutional Transfer Pattern*										
		U.S. Baccalaureate						Foreign Baccalaureate				
		A	B	C	D	E	F	G	H	I	J	K
<u>BIOLOGICAL SCIENCES</u>	Total Time	7.1	5.1	6.6	5.6	8.2	9.5	8.1	7.3	9.3	8.9	10.7
	Registered Time	<u>5.4</u>	<u>4.6</u>	<u>5.2</u>	<u>4.8</u>	<u>5.8</u>	<u>6.1</u>	<u>4.8</u>	<u>4.3</u>	<u>5.2</u>	<u>5.7</u>	<u>5.9</u>
AGRICULTURE AND FORESTRY	Total Time	7.1	5.7	6.3	5.5	8.1	9.9	8.0	8.8	9.0	8.5	10.3
	Registered Time	5.2	4.4	4.9	4.6	5.3	5.6	4.4	4.2	4.8	5.1	5.4
HEALTH SCIENCES	Total Time	7.5	5.0	7.6	6.3	9.8	11.5	7.7	8.6	9.9	10.2	—
	Registered Time	5.7	4.1	5.1	4.7	6.2	6.6	5.3	4.5	6.6	6.9	—
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	Total Time	6.3	5.4	6.3	5.5	8.2	9.2	8.6	6.4	9.3	8.2	10.6
	Registered Time	5.3	4.7	5.3	4.8	5.9	6.3	5.0	4.4	5.4	5.9	6.4
ANAT, CYTOL, ENTOMOL, GENETICS, MICROBIOL, EMBRY	Total Time	7.0	5.1	6.6	5.5	8.0	9.0	8.6	7.7	10.2	9.6	10.5
	Registered Time	5.6	4.7	5.2	4.9	5.9	6.1	4.9	4.5	5.3	6.0	6.0
ECOLOGY AND HYDROBIOLOGY	Total Time	—	—	6.5	—	8.5	—	—	—	—	—	—
	Registered Time	—	—	5.3	—	5.7	—	—	—	—	—	—
BOTANY, ZOOLOGY, GENERAL BIOLOGY	Total Time	7.8	4.7	6.6	5.3	7.9	9.0	8.0	—	—	9.8	—
	Registered Time	5.9	4.3	5.3	4.9	5.8	6.0	4.8	—	—	5.7	—
<u>SOCIAL SCIENCES</u>	Total Time	7.2	6.8	7.0	6.1	9.2	11.0	8.1	6.6	11.4	10.2	12.0
	Registered Time	<u>5.1</u>	<u>5.3</u>	<u>5.1</u>	<u>4.8</u>	<u>5.7</u>	<u>6.0</u>	<u>4.8</u>	<u>4.2</u>	<u>6.4</u>	<u>5.5</u>	<u>5.8</u>
PSYCHOLOGY	Total Time	6.3	6.7	6.1	6.0	9.0	10.3	6.3	5.1	—	9.2	—
	Registered Time	5.2	5.7	5.1	5.0	6.2	6.4	4.5	4.2	—	5.1	—
ANTHROPOLOGY AND ARCHEOLOGY	Total Time	10.0	7.5	8.1	7.8	11.5	10.8	—	—	—	—	—
	Registered Time	—	—	4.8	5.0	7.1	6.6	—	—	—	—	—
SOCIOLOGY	Total Time	8.1	—	7.7	6.8	9.2	12.0	—	—	—	10.7	—
	Registered Time	5.7	—	5.6	4.8	5.9	6.6	—	—	—	—	—
ECONOMICS AND ECONOMETRICS	Total Time	7.7	6.6	7.5	5.8	8.5	9.7	7.9	6.8	11.0	9.9	10.8
	Registered Time	4.9	4.3	4.8	4.3	5.1	5.4	4.6	4.0	6.1	5.4	5.2
POLITICAL SCIENCE, INT RELAT	Total Time	8.0	—	7.6	6.9	9.3	11.0	8.5	—	11.6	12.0	—
	Registered Time	5.1	—	5.0	4.6	5.7	5.8	5.3	—	6.8	—	—
<u>ARTS AND HUMANITIES</u>	Total Time	9.0	6.8	8.2	7.2	11.2	11.7	8.9	8.8	11.8	11.2	12.0
	Registered Time	<u>6.0</u>	<u>5.1</u>	<u>5.3</u>	<u>4.9</u>	<u>6.1</u>	<u>6.1</u>	<u>5.0</u>	<u>4.6</u>	<u>6.2</u>	<u>6.0</u>	<u>5.9</u>
HISTORY	Total Time	8.7	7.8	7.8	7.8	11.6	11.3	8.3	—	—	—	—
	Registered Time	5.8	5.4	5.3	5.3	6.1	6.1	5.6	—	—	—	—
ENGLISH AND AMERICAN LANG AND LIT	Total Time	9.8	7.5	8.8	6.6	11.4	10.9	9.0	—	—	11.5	—
	Registered Time	6.6	5.7	5.4	4.7	—	6.2	—	—	—	—	—
MODERN FOREIGN LANG AND LIT	Total Time	8.8	5.7	9.8	7.2	10.6	12.8	9.2	9.7	12.6	11.2	—
	Registered Time	6.0	4.8	5.3	4.8	6.0	6.6	4.9	4.7	6.5	6.1	—

TABLE 17
(continued)

Field of Doctorate		Median Years from Baccalaureate to Doctorate by Institutional Transfer Pattern*										
		U.S. Baccalaureate						Foreign Baccalaureate				
		A	B	C	D	E	F	G	H	I	J	K
CLASSIC LANG AND LIT	Total Time	—	—	7.2	7.5	—	11.7	—	—	—	—	—
	Registered Time	—	—	4.8	5.3	—	7.3	—	—	—	—	—
PHILOSOPHY	Total Time	7.9	6.3	6.9	6.2	10.2	10.2	—	—	—	—	—
	Registered Time	6.0	4.7	5.0	4.8	6.2	5.9	—	—	—	—	—
SPEECH AND DRAMATIC ARTS	Total Time	9.5	—	8.0	—	10.6	11.8	—	—	—	—	—
	Registered Time	5.7	—	4.9	—	5.5	5.3	—	—	—	—	—
FINE ARTS AND MUSIC	Total Time	9.8	—	10.9	9.5	13.7	14.0	—	—	—	—	—
	Registered Time	6.3	—	5.8	4.7	5.9	6.4	—	—	—	—	—
<u>PROFESSIONAL FIELDS</u>	Total Time	8.3	—	9.7	11.2	10.5	13.2	8.8	9.1	9.8	11.5	10.1
	Registered Time	<u>5.3</u>	—	<u>5.9</u>	<u>6.9</u>	<u>5.6</u>	<u>6.3</u>	<u>4.9</u>	<u>5.3</u>	<u>5.2</u>	<u>6.0</u>	—
BUSINESS ADMINISTRATION	Total Time	8.1	—	8.6	—	9.1	11.9	8.3	—	9.0	—	—
	Registered Time	5.2	—	5.2	—	5.1	5.7	5.1	—	5.6	—	—
RELIGION AND THEOLOGY	Total Time	—	—	10.8	11.3	10.2	13.1	—	—	—	—	—
	Registered Time	—	—	7.2	7.2	7.0	8.2	—	—	—	—	—
<u>EDUCATION</u>	Total Time	12.6	—	13.4	13.8	13.1	15.0	11.6	12.2	11.9	12.8	15.6
	Registered Time	<u>6.7</u>	—	<u>6.8</u>	<u>6.7</u>	<u>6.8</u>	<u>7.0</u>	<u>5.1</u>	—	<u>5.3</u>	<u>6.1</u>	<u>5.7</u>

*For definition of transfer patterns (A through K), refer to Table 11, p. 53.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER III FIRST POSTDOCTORAL EMPLOYMENT

- FIRST POSTDOCTORAL EMPLOYER
- FIRST POSTDOCTORAL WORK ACTIVITY
- PROFESSIONAL IDENTIFICATION
- GEOGRAPHIC DISTRIBUTION

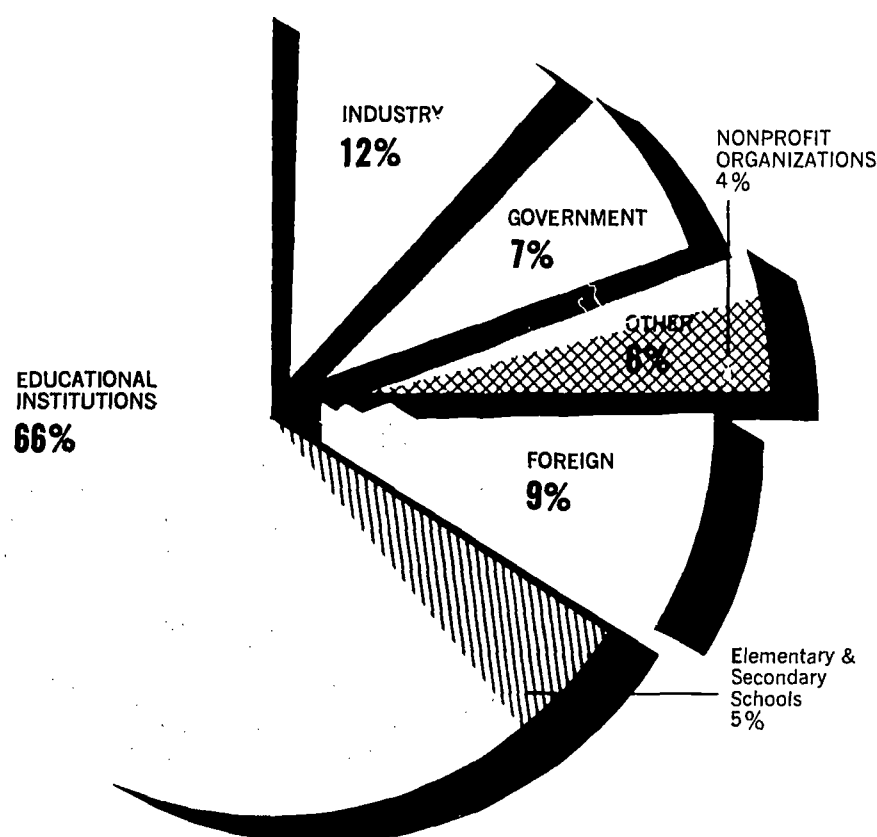
The preceding sections have described trends in the numbers of doctorates granted in United States universities and have treated certain aspects of the doctoral education process in the universities. This section focuses on the transition between formal education and professional employment.

The data derive primarily from three questions on the Survey of Earned Doctorates questionnaire. One question asks the new doctorate recipient to indicate his expected type of postdoctoral employer (university, industry, etc.); a second question asks him to list his expected primary work activity on the job (teaching, research, etc.); and a third asks him in what state or country he expects to work.

The data deal with the doctorate recipients' intentions. How accurate are the statements? A follow-up study has been conducted to determine the validity of the answers. Over 2,500 records were selected from the 1962 Doctorate Records File and matched name for name with records of the 1964 National Register of Scientific and Technical Personnel maintained by the National Science Foundation. For each person, a comparison was made of his intended type of employer and work activity as reported on the 1962 Doctorate questionnaire with his reported employer and work activity on the 1964 National Register questionnaire. Even allowing for the two-year lag, the results show good validity for the Doctorate Records File data. When the reports of individuals are compared, 85 percent of the respondents were working for the type of employer and engaged in the kind of work activity they had anticipated. When category totals are compared (i.e., the percentage in research or the percentage employed by industry), the correspondence is very close, the average agreement being 95 percent or better. (Those who thought they would be employed by, say industry, and were not, are partially balanced by those who were employed by industry but had not expected to be.)

Therefore, while the following data strictly must be labeled "intended employer" or "intended work activity," they are reliable statements about future employment status.

FIGURE 21
TYPE OF FIRST POSTDOCTORAL
EMPLOYER OF DOCTORATE
RECIPIENTS OF FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIRST POSTDOCTORAL EMPLOYER

Figure 21 and Table 18 show the type of postdoctoral employer for the doctorate recipients of FY 1958 - 1960, 1961 - 1963, and 1964 - 1966. Colleges and universities are the major employers of new doctorate recipients, and they have been attracting greater percentages in each time period. This trend is especially marked in the physical sciences which show an increase in university employment from 39 percent to 48 percent during the nine-year period. Arts and humanities graduates have been employed almost exclusively by colleges and universities.

Industry is a major employer of physical science graduates but employs fewer than 10 percent in other fields. However, the percentage of physical science doctorate recipients entering industry has fallen off rapidly from 44 percent in 1958 - 1960 to 30 percent in 1964 - 1966. Mathematics, physics, and chemistry show especially sharp declines in industrial employment.

Government employs sizeable numbers of biological and social scientists, but the percentages are declining. Relatively few graduates from other fields enter government service.

Fewer than 10 percent of the new doctorate recipients accepted employment in foreign countries. Since 14 percent were foreign citizens, it follows that some foreign students do not return to their home countries immediately upon completion of graduate work. The next chapter discusses in detail the employment and geographic movement of the foreign doctorate recipients.

Doctorate Recipients by Type of Postdoctoral Employer

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TABLE 18
(continued)

Doctorate Recipients by Type of Postdoctoral Employer

Field of Doctorate	Year of Doctorate	COLLEGE AND UNIVERSITY	ELEMENTARY AND SECONDARY SCHOOL	GOVERNMENT	NONPROFIT	INDUSTRY	OTHER	FOREIGN EMPLOYER	TOTAL WITH KNOWN EMPLOYER	UNKNOWN EMPLOYER
		N	N	N	N	N	N	N	N(100)	N
AGRICULTURE AND FORESTRY	1958-60	543 56	4 —	179 15	15 2	79 5	10 1	146 15	976	116
	1961-63	635 51	7 —	201 16	14 1	107 9	24 2	263 21	1,251	122
	1964-66	732 50	1 —	192 13	13 1	141 9	23 2	376 25	1,478	187
HEALTH SCIENCES	1958-60	260 57	2 —	32 7	11 2	90 20	22 5	43 9	460	110
	1961-63	286 52	2 —	46 9	27 3	89 16	22 4	75 14	547	33
	1964-66	428 55	1 —	83 11	36 4	109 14	31 4	94 12	782	74
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	1958-60	453 54	8 1	102 12	65 5	121 11	37 4	54 7	840	357
	1961-63	821 60	5 —	135 10	76 6	117 9	41 3	164 12	1,359	124
	1964-66	1,261 62	2 —	180 9	123 6	127 6	53 3	278 11	2,024	188
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	1958-60	471 51	1 —	147 16	42 5	106 12	31 3	120 13	918	217
	1961-63	662 55	10 1	175 15	41 3	102 9	29 2	183 15	1,202	125
	1964-66	936 57	— —	221 13	85 5	113 7	51 3	243 15	1,649	160
ECOLOGY, HYDROBIOLOGY	1958-60	64 73	2 2	14 16	5 6	— —	1 1	2 2	88	9
	1961-63	83 64	3 2	24 18	2 2	1 1	2 2	15 11	130	8
	1964-66	85 65	— —	20 15	5 4	1 1	3 2	16 12	130	10
BOTANY, ZOOLOGY, GEN BIOLOGY	1958-60	491 73	11 2	53 8	21 3	25 4	8 1	58 9	667	176
	1961-63	609 72	6 1	59 7	33 4	26 3	8 1	108 12	849	84
	1964-66	813 74	— —	80 7	27 3	25 2	23 2	128 12	1,096	133
<u>SOCIAL SCIENCES</u>	1958-60	2,571 59	130 3	719 17	294 7	236 5	145 3	253 6	4,348	627
	1961-63	3,133 58	143 3	827 15	372 7	227 4	191 1	487 9	5,380	447
	1964-66	4,328 64	82 1	833 12	497 7	255 4	203 3	610 9	6,808	539
PSYCHOLOGY	1958-60	886 45	107 5	503 26	192 10	141 7	98 5	39 2	1,966	339
	1961-63	1,119 48	115 5	555 23	234 10	126 5	111 5	90 4	2,350	219
	1964-66	1,556 54	72 3	561 20	325 11	132 5	98 3	123 4	2,867	234
ANTHROPOLOGY AND ARCHEOLOGY	1958-60	123 73	7 4	11 6	8 5	3 2	3 2	13 8	168	39
	1961-63	153 70	2 1	12 5	12 5	3 1	4 2	33 15	219	20
	1964-66	213 78	— —	10 4	11 4	— —	2 1	37 13	273	21
SOCIOLOGY	1958-60	341 74	5 1	29 6	32 7	13 3	9 2	30 7	459	41
	1961-63	387 74	8 2	27 5	25 5	8 2	6 1	60 11	521	41
	1964-66	531 81	2 —	23 3	27 1	5 1	11 2	60 9	659	39
ECONOMICS AND ECONOMETRICS	1958-60	642 71	1 —	75 8	31 3	61 7	14 2	83 9	907	103
	1961-63	766 63	6 1	127 10	49 4	70 6	29 2	164 14	1,211	70
	1964-66	996 63	2 —	142 9	65 4	87 6	53 3	236 15	1,581	128
POLIT SCI AND INT RELAT	1958-60	397 67	5 1	80 14	15 2	13 2	16 3	63 11	589	90
	1961-63	498 67	10 1	78 10	24 3	13 2	28 4	97 13	748	73
	1964-66	766 74	3 —	75 7	38 4	21 2	29 3	102 10	1,034	94
<u>ARTS AND HUMANITIES</u>	1958-60	3,128 87	121 3	76 2	75 2	34 1	41 1	125 4	3,600	338
	1961-63	3,854 87	107 3	60 1	88 2	42 1	37 1	231 5	4,419	301
	1964-66	5,606 89	91 1	80 1	98 2	32 1	50 1	370 6	6,327	478
HISTORY	1958-60	763 82	44 5	45 5	26 3	6 —	10 1	34 4	928	84
	1961-63	885 85	30 3	26 2	24 2	10 1	11 1	58 6	1,044	86
	1964-66	1,419 86	32 2	42 3	39 2	5 —	21 1	97 6	1,655	124

TABLE 18
(continued)

Doctorate Recipients by Type of Postdoctoral Employer

Field of Doctorate	Year of Doctorate	COLLEGE AND UNIVERSITY	ELEMENTARY AND SECONDARY SCHOOL	GOVERNMENT	NONPROFIT	INDUSTRY	OTHER	FOREIGN EMPLOYER	TOTAL WITH KNOWN EMPLOYER	UNKNOWN EMPLOYER
		N	N	N	N	N	N	N	N(100)	N
ENGLISH AND AMERICAN LANG AND LIT	1958-60	919 93	14 1	5 1	4	9 1	11 1	31 3	993	66
	1961-63	1,152 91	23 1	2	8 1	9 1	8 1	60 5	1,262	67
	1964-66	1,608 92	19 1	2	7 1	4	13 1	93 5	1,746	117
MODERN FOREIGN LANG AND LIT	1958-60	466 86	19 1	8 1	9 2	5 1	3	33 6	543	78
	1961-63	564 85	16 2	8 1	8 1	5 1	4 1	57 9	662	69
	1964-66	978 88	7 1	9 1	12 1	5	6 1	91 5	1,108	98
CLASSIC LANG AND LIT	1958-60	88 82	7 6	1 1	4 1	1 1	1 1	5 5	107	9
	1961-63	120 79	8 5		6 1		1 1	17 11	152	9
	1964-66	177 82	6 3	1	5 2	1	2 1	24 11	216	21
PHILOSOPHY	1958-60	263 88	7 2	1	8 3	2 1	4 1	14 5	299	40
	1961-63	333 89	3 1	2	11 3	3 1	4 1	19 5	375	36
	1964-66	389 88		1	11 2	4 1		39 9	444	42
SPEECH AND DRAMATIC ARTS	1958-60	303 85	14 4	15 1	15 4	7 2	4 1	1	359	20
	1961-63	421 85	15 3	21 1	19 4	10 2	3 1	7 1	496	15
	1964-66	567 89	14 2	22 1	14 2	9 1	4 1	6 1	636	34
FINE ARTS AND MUSIC	1958-60	304 88	16 1	1	9 3	4 1	7 2	6 2	347	40
	1961-63	353 89	12 3	1	12 3	5 1	6 2	9 2	398	17
	1964-66	431 90	13 3	2	10 2	3	4 1	18 4	481	37
PROFESSIONAL FIELDS	1958-60	619 66	49 5	16 2	113 12	49 5	21 2	74 8	941	90
	1961-63	863 70	23 2	28 2	120 10	53 1	17 1	131 11	1,235	81
	1964-66	1,210 73	7	26 2	120 7	90 5	42 3	161 10	1,656	204
BUSINESS ADMINISTRATION	1958-60	303 81	1	7 2	2 1	34 9	12 3	17 4	376	21
	1961-63	454 82		10 2	7 1	42 8	7 1	35 6	555	16
	1964-66	652 78	1	9 1	13 2	75 9	25 3	59 7	834	67
RELIGION AND THEOLOGY	1958-60	187 50	44 12	1	109 29	2 1	1	32 8	376	46
	1961-63	246 59	22 5	2	102 25		2	45 11	419	37
	1964-66	344 69	5 1	2 1	100 20		1	44 9	496	54
EDUCATION	1958-60	2,568 60	1,132 26	230 5	110 3	41 1	32 1	153 4	4,266	322
	1961-63	3,288 60	1,389 25	257 5	158 3	34 1	47 1	259 5	5,432	276
	1964-66	4,704 61	1,893 25	361 5	258 3	66 1	51 1	347 4	7,680	421

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIRST POSTDOCTORAL WORK ACTIVITY

The intended primary work activity of the doctorate recipients is shown in Figure 22 and Table 19, but several precautions should be observed in interpreting the data. The first column, Fellowship, refers to those who expect to be working on postdoctoral research fellowships, and for some purposes the column might reasonably be combined with the second one, Research, to give an over-all research percentage. Also, the data refer only to primary work activity. Many persons work in several kinds of activities, but the questionnaire asked for only the primary function. And finally, it is important to remember that the data refer to the work activity of the doctorate recipients on their first postdoctoral job. As their years of experience increase, their functions tend to change.

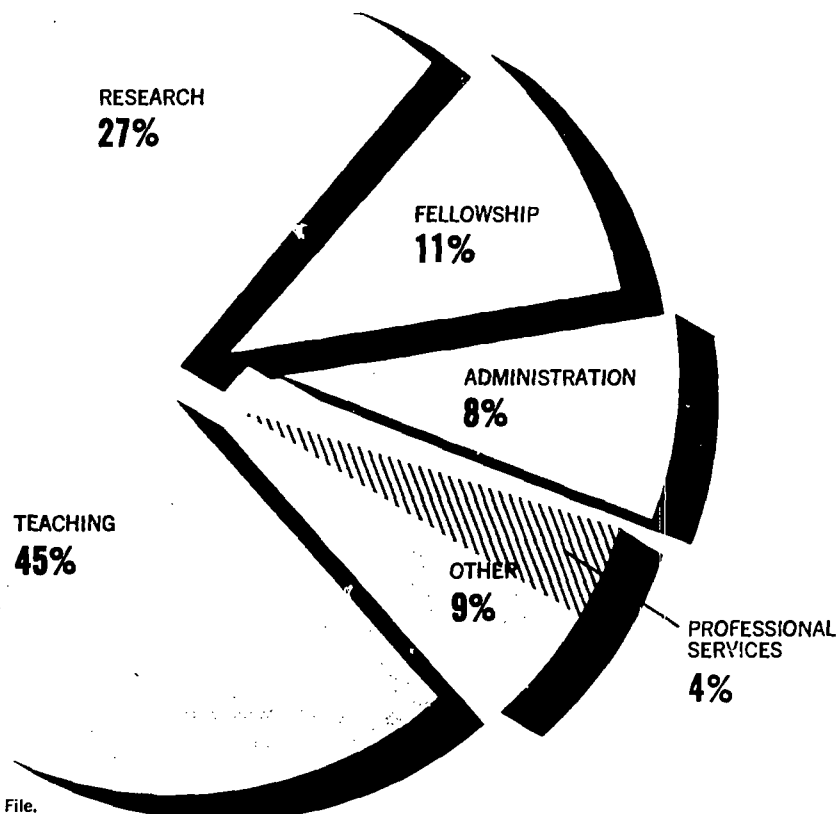
Table 19 shows that research is the most common primary work activity of the natural scientists and engineers. About two thirds of this group are engaged in either staff research or postdoctoral fellowship research. The combination of research and research fellowships accounts for only one fourth of the social scientists and about one in twenty in other fields. For all fields combined, research or research fellowships were the primary work activities for about one third of the new "research doctorates."

Most fields show some increase in the percentage of persons choosing teaching as a postdoctoral work activity. Graduates in arts and humanities fields are engaged almost exclusively in this activity. In contrast, fewer than one third of the natural scientists teach as a primary work activity.

Education is the only field having appreciable numbers who enter administration immediately after receipt of the doctorate. Many of these were principals, superintendents, or curriculum supervisors before they had completed the doctoral requirements.

Table 20 (p. 89) shows the relations between the type of postdoctoral employer and the kind of work activity performed for these employers. The relations are what one would expect. Most persons hired by colleges and universities report teaching as a primary work activity; doctorate recipients in elementary or secondary schools are administrators; the majority of those employed by governmental, nonprofit, or industrial agencies engage in research. About 40 percent of those accepting a job in a foreign country plan to teach, and the remainder expect to do research or have a postdoctoral research fellowship.

FIGURE 22
TYPE OF FIRST POSTDOCTORAL
WORK ACTIVITY OF DOCTORATE
RECIPIENTS OF FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 19

Doctorate Recipients by First Postdoctoral Work Activity, by Field, FY 1962 - 1966

Doctorate Recipients by Type of Postdoctoral Work Activity																
Field of Doctorate	Year of Doctorate	Fellowship		Research		Teaching		Administration		Professional Services		Other		Total with Known Activity		Activity Unknown
		N	%	N	%	N	%	N	%	N	%	N	%	N	%	
TOTAL ALL FIELDS																
	1962-63	2,017	10	6,424	31	8,640	42	1,544	5	978	5	949	1	20,552	3,675	
	1964-66	4,916	11	11,836	27	19,330	45	3,381	5	1,772	1	2,324	5	43,559	4,932	
PHYSICAL SCIENCES AND ENGINEERING																
	1962-63	990	15	3,621	53	1,667	24	74	1	44	1	384	6	6,780	1,188	
	1964-66	2,376	16	6,918	48	4,053	28	182	1	9	—	1,057	7	14,595	1,872	
MATHEMATICS																
	1962-63	66	9	250	33	378	50	6	1	9	1	48	6	757	115	
	1964-66	127	7	558	30	1,058	57	12	1	2	—	102	5	1,859	181	
PHYSICS AND ASTRONOMY																
	1962-63	225	18	785	61	215	17	13	1	5	—	36	3	1,279	249	
	1964-66	585	22	1,433	55	496	19	19	1	—	—	81	3	2,614	345	
Elementary Particles																
	1962-63	42	18	156	68	25	11	—	—	2	1	5	2	230	37	
	1964-66	107	24	253	56	70	16	1	—	—	—	18	1	449	39	
Solid State																
	1962-63	50	17	181	63	49	17	1	—	—	—	9	3	290	46	
	1964-66	157	21	427	57	143	19	6	1	—	—	18	2	751	54	
CHEMISTRY																
	1962-63	539	27	1,138	56	285	14	15	1	3	—	49	2	2,029	396	
	1964-66	1,225	33	1,768	47	623	16	24	1	2	—	103	3	3,745	625	
Organic																
	1962-63	213	25	513	61	95	11	5	1	1	—	18	2	845	148	
	1964-66	506	33	808	53	173	11	4	—	—	—	41	3	1,532	248	
Physical																
	1962-63	194	31	340	55	61	10	3	1	1	—	17	3	616	93	
	1964-66	390	36	462	43	187	18	7	1	—	—	25	2	1,071	154	
EARTH SCIENCES																
	1962-63	43	9	247	50	129	26	5	1	11	2	60	12	495	76	
	1964-66	105	11	425	43	285	29	9	1	—	—	157	16	981	104	
ENGINEERING																
	1962-63	117	5	1,201	54	660	30	35	2	16	1	191	5	2,220	352	
	1964-66	334	6	2,734	51	1,591	29	118	3	5	—	614	11	5,396	617	
Chemical																
	1962-63	26	6	268	63	72	17	8	2	1	—	52	12	427	56	
	1964-66	73	8	523	59	147	17	16	2	—	—	118	11	877	130	
Electrical																
	1962-63	14	3	241	55	148	33	3	1	2	—	34	5	442	78	
	1964-66	60	6	576	53	319	29	20	2	—	—	108	10	1,083	126	

TABLE 19
(continued)

Doctorate Recipients by Type of Postdoctoral Work Activity

Field of Doctorate	Year of Doctorate	Fellowship		Research		Teaching		Administra- tion		Professional Services		Other		Total with Known Activity		Activity Unknown	
		N	%	N	%	N	%	N	%	N	%	N	%	N (100)	%	N	%
BIOLOGICAL SCIENCES	1962-63	739	22	1,590	47	816	24	48	2	41	1	138	4	3,372	680		
	1964-66	1,910	27	2,683	39	1,791	26	123	2	63	1	357	5	6,927	984		
AGRICULTURE AND FORESTRY	1962-63	57	8	443	61	144	20	13	2	8	1	59	2	724	211		
	1964-66	127	9	776	56	325	23	38	3	2	—	126	9	1,394	271		
HEALTH SCIENCES	1962-63	51	15	156	47	78	23	6	2	19	6	23	7	333	74		
	1964-66	150	20	294	39	185	24	32	4	41	5	57	2	759	97		
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	1962-63	332	36	416	45	135	15	9	1	7	1	23	2	922	124		
	1964-66	919	46	665	33	308	15	14	1	11	1	74	1	1,991	221		
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	1962-63	192	25	383	49	163	21	10	1	7	1	24	3	779	158		
	1964-66	474	30	634	40	378	24	30	2	9	—	73	1	1,598	211		
ECOLOGY, HYDROBIOLOGY	1962-63	9	11	37	42	38	43	2	2	—	—	2	2	88	15		
	1964-66	10	8	38	32	68	56	2	2	—	—	3	2	121	19		
BOT, ZOOLOGY, GENERAL BIOLOGY	1962-63	98	19	155	29	258	49	8	2	—	—	7	1	526	98		
	1964-66	230	22	276	26	527	19	7	1	—	—	24	2	1,064	165		
SOCIAL SCIENCES	1962-63	206	6	882	26	1,446	43	148	5	487	14	186	6	3,355	651		
	1964-66	453	7	1,503	22	3,229	48	239	4	929	14	332	2	6,685	662		
PSYCHOLOGY	1962-63	150	10	424	29	369	23	49	3	421	12	73	2	1,486	263		
	1964-66	356	13	626	22	835	29	55	2	877	13	95	1	2,844	257		
ANTHROPOLOGY, ARCHECLOGY	1962-63	16	10	45	30	78	34	5	1	1	1	7	1	152	27		
	1964-66	14	3	60	24	185	68	3	1	1	—	7	1	270	24		
SOCIOLOGY	1962-63	9	3	85	23	201	61	8	1	9	—	10	1	322	73		
	1964-66	21	3	165	11	415	14	23	1	15	—	8	—	647	51		
ECONOMICS AND ECONOMETRICS	1962-63	13	2	233	14	384	13	27	—	26	—	49	—	732	136		
	1964-66	28	1	467	3	841	3	52	—	11	—	131	—	1,530	179		
POLITICAL SCIENCE AND INT RELATIONS	1962-63	17	1	60	1	289	1	42	—	11	—	36	—	455	112		
	1964-66	30	—	114	—	696	—	85	—	6	—	74	—	1,005	123		

TABLE 19
(continued)

Field of Doctorate	Doctorate Recipients by Type of Postdoctoral Work Activity											
	Fellowship		Research		Teaching		Administra- tion		Professional Services		Other	
	Year of Doctorate	N	N	N	N	N	N	N	N	N	N	N
ARTS AND HUMANITIES	1962-63	52	2	105	2,422	87	83	53	2	76	2,791	434
	1964-66	103	2	209	5,547	166	166	58	1	149	6,232	573
HISTORY	1962-63	12	2	37	538	1	23	7	1	18	635	120
	1964-66	37	2	50	1,419	1	52	10	1	54	1,622	157
ENGLISH AND AMERICAN LANG AND LIT	1962-63	8	1	9	771	94	16	1	1	18	829	127
	1964-66	9	1	17	1,637	96	29	2	1	20	1,716	147
MODERN FOREIGN LANG AND LIT	1962-63	9	2	26	352	16	7	5	1	12	411	85
	1964-66	15	1	70	983	19	15	1	1	21	1,105	101
CLASSIC LANG AND LIT	1962-63	7	6	5	89	1	2	1	1	2	106	7
	1964-66	9	1	11	188	1	3	2	1	4	217	20
PHILOSOPHY	1962-63	3	1	11	205	1	7	6	1	4	236	27
	1964-66	11	3	17	395	90	4	4	1	5	436	50
SPEECH AND DRAMATIC ARTS	1962-63	6	2	14	255	1	19	30	9	9	333	31
	1964-66	12	2	25	487	1	41	34	6	25	624	46
FINE ARTS AND MUSIC	1962-63	7	3	4	189	1	9	3	1	11	223	34
	1964-66	9	2	12	408	1	20	5	1	17	471	47
PROFESSIONAL FIELDS	1962-63	10	1	60	577	69	56	95	12	35	833	115
	1964-66	17	1	140	1,142	71	116	87	5	116	1,618	242
BUSINESS ADMINISTRATION	1962-63	3	1	34	299	1	28	8	1	11	383	40
	1964-66	3	1	77	614	1	50	5	1	63	822	79
RELIGION AND THEOLOGY	1962-63	3	1	6	195	1	12	63	1	10	289	43
	1964-66	6	1	9	358	1	22	67	1	24	486	64
EDUCATION	1962-63	20	1	166	1,712	50	1,135	258	1	130	3,421	607
	1964-66	57	1	383	3,568	1	2,555	626	1	313	7,502	599

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 20

Type of Work Activity by Type of First Postdoctoral Employer, FY 1964 - 1966

Type of Postdoctoral Work Activity														
Type of First Postdoctoral Employer	Fellowship		Research		Teaching		Adminis- tration		Profes- sional Services		Other		Total With Known Activity	Activity Unknown
	N		N		N		N		N		N		N	N
TOTAL KNOWN EMPLOYER	4,814	11	11,627	27	19,210	15	3,345	1	1,736	1	2,294	1	43,026	1,686
COLLEGE AND UNIVERSITY	3,234	12	4,057	15	17,175	65	1,209	5	410	1	472	1	26,557	865
ELEMENTARY AND SECONDARY SCHOOL	6	11	37	2	368	18	1,322	65	257	1	51	1	2,041	41
FEDERAL GOVERNMENT	349	18	1,183	59	38	2	128	6	127	6	172	9	1,997	49
STATE AND LOCAL GOVERNMENT	45	5	192	23	21	2	182	21	329	19	83	16	854	21
NONPROFIT	256	15	712	12	32	5	129	1	359	21	170	19	1,708	52
INDUSTRY	38	1	4,091	79	11	8	134	2	85	2	852	16	5,211	288
OTHER	67	7	383	41	38	4	67	7	119	15	268	28	942	185
FOREIGN	817	22	972	31	1,477	15	174	5	50	1	226	6	3,716	245
EMPLOYER UNKNOWN	102		209		120		36		36		30		533	3,246

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

PROFESSIONAL IDENTIFICATION

It is generally recognized that many students shift majors—and hence professional goals—as they proceed from baccalaureate to doctoral degrees. However, a considerable amount of field shifting occurs also in the transition between doctorate and job. Table 21 shows the percentage of persons whose baccalaureate was in the same field as the doctorate and whose job was in the same field as the doctorate. In all, 60 percent of the 1958 - 1966 doctorate recipients received a baccalaureate in the same field as that of their doctorate, and 77 percent of the 1955 - 1960 doctorate recipients were found in 1962 to be working in the same field as that of their doctorate. The table shows that some fields are much more stable than others in this respect.

A more specific illustration of the flexibility of the education - employment match is shown in Figure 23. The top diagram shows the varied fields of employment of 86 persons from the 1964 National Register of Scientific and Technical Personnel who had received their doctoral degrees in solid state physics. A little more than half (46) were employed as solid state physicists and another 11 in other physics specialties. The remaining one third were employed in the non-physics categories shown.

The bottom diagram illustrates the reverse process. It shows the great range of doctoral fields for 1,894 persons in the National Register who were employed as solid state physicists. The 46 who had a doctorate in solid state represent only 2 percent of the total. Another 1,388 (73 percent) had a doctorate in other physics subfields, and the remaining 25 percent had a doctorate in the many fields listed.

The data in Figure 23 are meant to illustrate a point and should not be overgeneralized. Other fields might have very different characteristics from this relatively new and fast-growing field, and another sample of solid state physicists might show a somewhat different distribution.

TABLE 21

Percentage of Doctorate Recipients Remaining in the Same Field from Baccalaureate to Doctorate and Doctorate to Job

Field	Baccalaureate	Doctorate	Job
	Percent with Baccalaureate in Same Field as Doctorate	Percent with Job Field Same as Doctorate Field	
MATHEMATICS	70	91	
PHYSICS AND ASTRONOMY	75	90	
CHEMISTRY	85	84	
EARTH SCIENCES	74	93	
ENGINEERING	89	92	
AGRICULTURE AND FORESTRY	75	73	
HEALTH SCIENCES	52	78	
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	8	70	
ANAT, CYTOL, ENTOMOL, GENET	21	*	
ECOLOGY, HYDROBIOLOGY	6	*	
BOTANY, ZOOLOGY, GENERAL BIOLOGY	71	51	
PSYCHOLOGY	64	90	
ANTHROPOLOGY AND ARCHEOLOGY	42	*	
SOCIOLOGY	43	79	
ECONOMICS AND ECONOMETRICS	51	78	
POLITICAL SCIENCE, INT RELAT	51	81	
HISTORY	66	85	
ENGLISH AND AMERICAN LANG AND LIT	77	*	
MODERN FOREIGN LANG AND LIT	59	*	
CLASSIC LANG AND LIT	59	*	
PHILOSOPHY	58	*	
SPEECH AND DRAMATIC ARTS	52	*	
FINE ARTS AND MUSIC	72	*	
BUSINESS ADMINISTRATION	55	*	
RELIGION AND THEOLOGY	19	*	
EDUCATION	43	81	

*Data not available

Source: NRC, Office of Scientific Personnel, Doctorate Records File and Profiles of PhD's in the Sciences (Publ. 1293) p. 116.

FIGURE 23
AN EXAMPLE OF CHANGES
BETWEEN DOCTORATE AND
EMPLOYMENT FIELDS.

FIELD OF DOCTORATE	EMPLOYMENT FIELD
	46 IN SOLID STATE PHYSICS
	1 IN ASTRONOMY
	2 IN BIOCHEM, BIOPHYS
86 IN SOLID STATE PHYSICS	14 IN CHEMISTRY
	3 IN ELECTRONICS
	9 IN ENGINEERING
	11 IN PHYSICS (EX. SOLID STATE)
46 IN SOLID STATE PHYSICS	
1 IN BIOPHYSICS	
318 IN CHEMISTRY	
1 IN ELECTRONICS	
109 IN ENGINEERING	
18 IN GEOL, GEOPHYS, GEOCHEM	1,894 IN SOLID STATE PHYSICS
1 IN HORTICULTURE	
7 IN MATHEMATICS	
1,388 IN PHYSICS (EX. SOLID STATE)	
5 IN OTHER FIELDS	

Source: NSF, unpublished data from 1964 National Register of Scientific and Technical Personnel.

GEOGRAPHIC DISTRIBUTION

Some data describing the geographic mobility between baccalaureate and doctoral degrees were presented in Chapter I (see Table 7, p. 40). The data in Table 22 provide a more detailed analysis of the results of the doctoral population migration by showing the varying percentages of doctorate recipients in a given state or geographic region at four career stages: high-school graduation, receipt of baccalaureate, receipt of doctorate, and first job.

The rank order of the nine geographic regions by number of doctorate recipients shows reasonable stability for all four career stages. The Middle Atlantic and East North Central regions lead for each stage, accounting for 35-44 percent of the doctoral students. In contrast, the Mountain and East South Central regions rank last for each career stage, accounting for about 8 percent of the students.

In the high-school - to - baccalaureate transition, the percentages in each region as well as the relative rank orders show only small changes. In the transition from baccalaureate to doctorate, the East North Central and Pacific regions were baccalaureate sources of 27 percent but doctoral sources of 38 percent. Between doctorate and first job, New England and East North Central regions granted 34 percent of the doctorates but hired only 24 percent of the graduates. Appendixes D and E show the state-by-state migration from baccalaureate to doctorate and from doctorate to first job.

In summary, the data in this section show that doctorate recipients from United States universities perform a variety of work activities for different kinds of employers; they shift fields frequently both during and after their doctoral work; and they are geographically mobile. They must be flexible, and perhaps the best doctoral programs should take this need for flexibility into account.

TABLE 22

Geographic Distribution of FY 1964 - 1966 Doctorate Recipients at Various Career Stages (N = 48,491)

State and Region	Doctorate Recipients at Various Career Stages							
	High School		Baccalaureate		Doctorate		Postdoctoral Job	
	N		N		N		N	
NEW ENGLAND	2,789	5.75	4,148	8.55	4,782	9.86	2,996	6.15
MAINE	171	.35	207	.43	21	.04	95	.20
NEW HAMPSHIRE	232	.48	290	.60	61	.13	119	.25
VERMONT	102	.21	138	.28	24	.05	80	.16
MASSACHUSETTS	1,468	3.03	2,560	5.28	3,259	6.72	1,875	3.87
RHODE ISLAND	184	.38	263	.54	302	.62	160	.33
CONNECTICUT	632	1.30	690	1.42	1,115	2.30	667	1.38
MIDDLE ATLANTIC	9,942	20.30	8,833	18.22	9,402	19.39	7,083	14.61
NEW YORK	5,717	11.79	5,198	10.72	5,646	11.64	3,686	7.60
NEW JERSEY	1,412	2.91	884	1.82	1,168	2.41	1,392	2.87
PENNSYLVANIA	2,713	5.59	2,751	5.67	2,588	5.34	2,005	4.13
EAST NORTH CENTRAL	7,856	16.20	8,494	17.52	11,718	24.17	6,810	14.04
OHIO	1,868	3.85	2,063	4.25	1,899	3.92	1,567	3.23
INDIANA	929	1.92	1,347	2.78	2,274	4.69	974	2.01
ILLINOIS	2,567	5.29	2,379	4.91	3,415	7.04	1,908	3.93
MICHIGAN	1,419	2.93	1,679	3.46	2,540	5.24	1,452	2.99
WISCONSIN	1,073	2.21	1,026	2.12	1,590	3.28	909	1.87
WEST NORTH CENTRAL	4,619	9.53	4,581	9.45	4,235	8.73	2,814	5.80
MINNESOTA	975	2.01	1,064	2.19	1,075	2.22	670	1.38
IOWA	880	1.81	937	1.93	1,293	2.67	526	1.08
MISSOURI	1,028	2.12	983	2.03	859	1.77	717	1.48
NORTH DAKOTA	207	.43	149	.31	98	.20	107	.22
SOUTH DAKOTA	232	.48	203	.42	34	.07	106	.22
NEBRASKA	531	1.10	472	.97	337	.69	247	.51
KANSAS	766	1.58	773	1.59	539	1.11	441	.91
SOUTH ATLANTIC	3,553	7.33	3,720	7.67	4,791	9.88	4,888	10.08
DELAWARE	103	.21	67	.14	143	.29	305	.63
MARYLAND	474	.98	573	1.18	858	1.77	943	1.94
DISTRICT OF COLUMBIA	264	.54	323	.67	834	1.72	840	1.73
VIRGINIA	541	1.12	468	.97	378	.78	572	1.18
WEST VIRGINIA	311	.64	249	.51	94	.19	151	.31
NORTH CAROLINA	582	1.20	722	1.49	1,128	2.33	735	1.52

TABLE 22
(continued)

State and Region	Doctorate Recipients at Various Career Stages							
	High School		Baccalaureate		Doctorate		Postdoctoral Job	
	N		N		N		N	
SOUTH CAROLINA	255	.53	272	.56	89	.18	230	.47
GEORGIA	474	.98	513	1.06	406	.84	497	1.02
FLORIDA	549	1.13	533	1.10	861	1.78	615	1.27
EAST SOUTH CENTRAL	1,733	3.57	1,727	3.56	1,253	2.58	1,442	2.97
KENTUCKY	468	.97	440	.91	200	.41	336	.69
TENNESSEE	549	1.13	600	1.24	625	1.29	582	1.20
ALABAMA	420	.87	438	.90	263	.54	319	.66
MISSISSIPPI	296	.61	249	.51	165	.34	205	.42
WEST SOUTH CENTRAL	3,208	6.62	3,336	6.88	3,187	6.57	2,591	5.34
ARKANSAS	326	.67	297	.61	179	.37	144	.30
LOUISIANA	458	.94	511	1.05	553	1.14	481	.99
OKLAHOMA	691	1.43	725	1.50	760	1.57	449	.93
TEXAS	1,733	3.57	1,803	3.72	1,695	3.50	1,517	3.13
MOUNTAIN	1,902	3.92	2,145	4.42	2,236	4.61	1,922	3.96
MONTANA	200	.41	161	.33	76	.16	114	.24
IDAHO	237	.49	166	.34	44	.09	117	.24
WYOMING	108	.22	74	.15	115	.24	84	.17
COLORADO	481	.99	641	1.32	996	2.05	624	1.29
NEW MEXICO	148	.31	162	.33	162	.33	334	.69
ARIZONA	173	.36	213	.44	397	.82	311	.64
UTAH	511	1.05	696	1.44	441	.91	277	.57
NEVADA	44	.09	32	.07	5	.01	61	.13
PACIFIC	3,792	7.82	4,414	9.10	6,884	14.20	5,504	11.35
WASHINGTON	657	1.35	686	1.41	883	1.82	656	1.35
OREGON	468	.97	561	1.16	686	1.41	425	.88
CALIFORNIA	2,571	5.30	3,102	6.40	5,242	10.81	4,250	8.76
ALASKA	10	.02	15	.03	10	.02	37	.08
HAWAII	86	.18	50	.10	63	.13	136	.28
PUERTO RICO	75	.15	63	.13	—	—	95	.20
LOCATION UNKNOWN	7,865	16.22	6,554	13.52	—	—	4,092	8.44
FOREIGN	1,257	2.59	476	.98	3	.01	8,254	17.02

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER IV UNITED STATES DOCTORATE RECIPIENTS FROM FOREIGN COUNTRIES

- SOURCE COUNTRIES AND DOCTORAL EDUCATION
- EMPLOYMENT

Approximately one seventh of the persons receiving doctorates from United States universities are of foreign citizenship, and the percentage is growing. Many agencies in the United States and in foreign countries have become increasingly anxious to find out what happens to this pool of highly educated manpower. Do the doctorate recipients return to their homeland and apply their newly acquired skills there, or do they remain in the United States, becoming part of the brain drain?

The Doctorate Records File provides useful information describing the migration of predoctoral students to this country, their education while here, and their subsequent patterns of postdoctoral employment. Specifically, the following data show which foreign countries and foreign institutions were the major sources of students coming to this country. They show to what states the foreign students came, the fields of their doctoral work, the time required to complete the work, and, finally, the postdoctoral migration and employment patterns.

SOURCE COUNTRIES AND DOCTORAL EDUCA- TION

Table 23 shows the number of students from the various world regions who received doctorates at United States universities between 1920 - 1959 and 1960 - 1966. The table indicates also the summary field of doctorate for the students from each region. Appendix G shows a more detailed tabulation of the field of doctorate, and it lists the countries included in each of the world regions.

The right-hand margin totals show that the number of foreign students receiving doctorates in the United States for the period 1960 - 1966 almost equaled the total for the preceding years, but the distribution by source country changed noticeably between 1920 - 1959 and 1960 - 1966. Before 1960, Canada supplied one third of the foreign doctoral students and was by far the major source country; China ranked second and supplied about one seventh; these two accounted for one half of the foreign doctoral students. Since 1960, Canada and China together have supplied only one fourth of the foreign doctoral students, and India has taken over the lead from both. Countries of the Near East plus Japan and Korea, which in aggregate supplied 11 percent of the pre-1960 total, accounted for 19 percent of the recent total.

TABLE 23

Foreign Countries That Were Sources of Doctorates in United States Universities, by Summary Fields, FY 1960 - 1966

Doctorate Recipients by Field																
Source Country (Country of Baccalaureate)	Physical Sciences		Biological Sciences		Social Sciences		Arts and Humanities		Professional Fields		Education		Total			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%		
CANADA	644	13.4	473	15.7	335	19.2	215	22.2	98	21.3	170	22.1	1,955	16.1	4,107	33.5
MEXICO AND CENTRAL AMERICA	50	1.0	93	3.1	29	1.7	17	1.8	4	0.9	7	0.9	200	1.7	111	0.9
SOUTH AMERICA	134	2.7	79	2.6	37	2.1	22	2.3	4	0.9	6	0.8	282	2.1	174	1.4
NORTHWEST AND CENTRAL EUROPE	581	11.7	260	8.6	264	15.1	233	24.1	70	15.2	51	6.7	1,459	12.3	1,628	13.3
SOUTHERN EUROPE	186	3.8	85	2.8	67	3.8	117	12.1	28	6.1	10	1.3	493	4.1	515	4.2
EASTERN EUROPE	117	2.4	51	1.7	49	2.8	64	6.6	11	2.4	8	1.1	300	2.5	364	3.0
AFRICA (EXCEPT EGYPT)	56	1.1	81	2.7	26	1.5	9	0.9	5	1.1	23	3.0	200	1.7	155	1.3
NEAR EAST	578	11.7	385	12.8	241	13.8	70	7.2	87	18.9	131	17.3	1,492	12.6	1,015	8.3
INDIA	1,054	21.3	742	24.7	267	15.3	66	6.8	49	10.6	101	13.3	2,279	19.2	1,222	10.0
PAKISTAN	56	1.1	104	3.4	61	3.5	9	0.9	6	1.3	38	5.0	274	2.3	158	1.3
CHINA (NATIONALIST)	805	16.3	216	7.2	96	5.5	32	3.3	13	2.8	29	3.8	1,191	10.0	1,793	14.6
JAPAN	214	4.3	78	2.6	54	3.1	37	3.8	16	3.5	19	2.5	418	3.5	210	1.7
KOREA	159	3.2	61	2.0	53	3.0	7	0.7	18	3.9	10	1.3	308	2.6	69	0.6
OTHER SOUTHEAST ASIA	97	2.0	92	3.1	61	3.5	14	1.5	8	1.7	35	4.6	307	2.6	146	1.2
AUSTRALIA AND NEW ZEALAND	119	2.4	120	4.0	58	3.3	25	2.6	19	4.1	40	5.3	381	3.2	296	2.4
PHILIPPINES	75	1.5	90	3.0	47	2.7	30	3.1	24	5.2	80	10.6	346	2.9	296	2.4
TOTAL FOREIGN COUNTRIES	4,945	99.9	3,010	100.0	1,745	99.9	967	99.9	460	99.9	758	99.9	11,885	100.0	12,259	100.1
		41.6		25.3		14.7		8.1		3.9		6.4		100.0		
TOTAL UNITED STATES	25,699	31.7	12,465	15.4	13,126	16.2	12,006	14.8	3,084	3.8	14,598	18.0	80,978	99.9	136,109	95

Source: NSF, Office of Scientific Personnel, Doctorate Records File.

TABLE 24

Foreign Institutions That Were Leading Baccalaureate Sources of Doctorates in United States Universities, by Summary Fields, FY 1960 - 1966

Leading Foreign Baccalaureate Institutions (ranked as sources of doctorates 1960 - 1966)	Doctorate Recipients by Field						Total
	Physical Sciences and Engineering	Biological Sciences	Social Sciences	Arts and Humanities	Professional Fields	Education	
NATIONAL TAIWAN UNIVERSITY, CHINA	491	120	45	15	4	5	680
CAIRO UNIVERSITY, EGYPT	101	115	48	12	32	34	342
TORONTO, UNIVERSITY OF CANADA	139	34	62	58	14	15	322
BRITISH COLUMBIA, UNIVERSITY OF, CANADA	74	87	51	25	16	35	288
BOMBAY, UNIVERSITY OF, INDIA	127	62	20	6	5	7	227
ALBERTA, UNIVERSITY OF, CANADA	89	53	23	10	10	37	222
MADRAS, UNIVERSITY OF, INDIA	113	69	16	4	2	11	215
PHILIPPINES, UNIVERSITY OF THE	39	70	31	15	16	34	205
MCGILL UNIVERSITY, CANADA	73	48	46	17	8	8	200
PUNJAB, UNIVERSITY OF, INDIA	73	71	32	7	3	11	197
SEOUL NATIONAL UNIVERSITY, KOREA	113	40	23	1	6	5	188
CALCUTTA UNIVERSITY, INDIA	88	54	30	7	—	6	185
HEBREW UNIVERSITY, THE, ISRAEL	40	40	49	21	8	7	165
LONDON, UNIVERSITY OF, ENGLAND	64	19	40	18	10	13	164
AMERICAN UNIVERSITY OF BEIRUT, LEBANON	52	46	30	9	4	11	152
AGRA UNIVERSITY, INDIA	35	84	17	1	4	6	147
MANITOBA, UNIVERSITY OF, CANADA	45	49	23	10	5	8	140
PUNJAB, UNIVERSITY OF, PAKISTAN	28	44	29	4	4	27	136
ALEXANDRIA UNIVERSITY, EGYPT	49	47	21	2	8	5	132
MYSORE, UNIVERSITY OF, INDIA	83	18	6	5	1	5	118
DELHI, UNIVERSITY OF, INDIA	63	20	17	3	11	4	118

TABLE 24
(continued)

Leading Foreign Baccalaureate Institutions (ranked as sources of doctorates 1960 - 1966)	Doctorate Recipients by Field						Total
	Physical Sciences and Engineering	Biological Sciences	Social Sciences	Arts and Humanities	Professional Fields	Education	
SASKATCHEWAN, UNIVERSITY OF, CANADA	39	36	12	8	5	12	112
ISRAEL INSTITUTE OF TECHNOLOGY	106	3	—	—	3	—	112
TEHERAN, UNIVERSITY OF, IRAN	48	20	23	5	2	13	111
ANDHRA UNIVERSITY, INDIA	62	28	15	4	—	—	109
CAMBRIDGE UNIVERSITY, ENGLAND	43	13	23	23	5	—	107
QUEEN'S UNIVERSITY, CANADA	55	12	14	9	4	6	100

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

The bottom horizontal rows of Table 23 compare the field of doctorate of foreign and United States students. The foreign students are concentrated more heavily in the natural sciences (67 percent compared with 47 percent for United States students), and the foreign students are less well represented in arts and humanities and education (14 percent of the foreign to 33 percent of the United States students). The concentration in natural sciences is particularly evident with the Indian and Chinese students who have 79 percent and 85 percent, respectively, in these fields.

Table 24 lists the names of 27 foreign universities, each of which was a baccalaureate source of one hundred or more persons who later came to the United States for doctoral work. The institution names appear in rank order, based on the total number of persons from each who received doctorates between FY 1960 - 1966.

In all, 11,855 foreign citizens from 951 foreign institutions received doctorates at United States universities during FY 1960 - 1966. The 27 listed institutions (3 percent of the total) were sources of 5,194 doctorate recipients (44 percent of the total foreign doctorate recipients). This concentration is emphasized further by noting that 15 of the 27 universities are Canadian or Indian.

Personal characteristics of the foreign doctorate recipients do not differ to any great extent from those of their United States counterparts. During the period FY 1964 - 1966, 89 percent of the native United States doctorate recipients were male, 78 percent were married, and the median age at doctorate was 31. Corresponding figures for the foreign group are: 91 percent male, 64 percent married, and median age at doctorate 32.

After arriving as students in the United States, the foreign doctorate recipients distributed themselves regionally in a pattern very similar to that of the United States students, as shown by the following comparison:

U.S. Region of Doctoral Institution	Percentage of 1958-36 Doctorates	
	Native U.S.	Foreign
New England	10.0	11.4
Middle Atlantic	20.8	19.3
East North Central	24.9	28.9
West North Central	9.0	9.0
South Atlantic	9.5	8.4
East South Central	2.6	0.9
West South Central	6.1	4.5
Mountain	4.1	2.5
Pacific	13.0	15.1
Totals	100.0	100.0

Appendix D contains a more detailed state-by-state distribution of foreign doctoral students.

TABLE 25

Time Lapse from Graduate School Entry to Doctorate, by Citizenship and Summary Fields, FY 1964 - 1968

Field by Doctorate	Citizenship	Median Years from Graduate School Entry to Doctorate	
<u>TOTAL ALL FIELDS</u>	U.S.	Total Time	7.2 yrs
		Registered Time	<u>5.5</u>
	Non U.S.	Total Time	6.4
		Registered Time	<u>5.1</u>
PHYSICAL SCIENCES AND ENGINEERING	U.S.	Total Time	5.8
		Registered Time	5.1
	Non U.S.	Total Time	5.9
		Registered Time	5.0
BIOLOGICAL SCIENCES	U.S.	Total Time	6.3
		Registered Time	5.3
	Non U.S.	Total Time	6.3
		Registered Time	5.1
SOCIAL SCIENCES	U.S.	Total Time	7.0
		Registered Time	5.3
	Non U.S.	Total Time	7.0
		Registered Time	5.1
ARTS AND HUMANITIES	U.S.	Total Time	8.4
		Registered Time	5.7
	Non U.S.	Total Time	7.5
		Registered Time	5.1
PROFESSIONAL FIELDS	U.S.	Total Time	9.2
		Registered Time	6.1
	Non U.S.	Total Time	7.6
		Registered Time	5.3
EDUCATION	U.S.	Total Time	11.8
		Registered Time	6.9
	Non U.S.	Total Time	9.1
		Registered Time	5.2

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Once established in graduate school, the foreign student progressed rapidly through his doctoral program. Information from a previous section (Figure 20 and Table 16, pp. 73-76) showed that even though the total time elapsed from baccalaureate to doctorate was a little longer for foreign students, the registered time was about equal to that of United States students. This suggests that the foreign student might take more time from baccalaureate to entering graduate school, but that once started he proceeded at a good pace. Table 25 data confirm this pattern. The table compares foreign and United States students for the time elapsed (total and registered) from beginning of graduate school until receipt of doctorate.

In the science fields—both natural and social—the United States and the foreign students' time lapse were about equal for both total time and registered time. In the nonscience fields, the foreign students completed their doctoral work faster than the United States students, whether measured by total or registered time.

The preceding data of this section have indicated the time lapses and the geographic and institutional sources of foreign students who came to the United States for graduate work and achieved the doctorate. The following section deals with the immediate postdoctoral migrations and work activities of the foreign students.

EMPLOYMENT

As a preliminary to discussing postdoctoral employment patterns of United States doctorate recipients from foreign countries, it is of interest to investigate their employment status the year preceding receipt of the doctorate. Table 26 compares the predoctoral employment of the United States and the foreign students, equated for summary field.

Foreign students have higher percentages in all areas except Full-Time Employed. Having less full-time employment, receiving more fellowships (in all fields but natural sciences), and having more part-time employment (which includes assistantships), the foreign students are apparently better able to be on campus and devote more time to doctoral work than the United States students.

Postdoctoral migration of the United States doctorate recipients from foreign countries is described in Tables 27 and 28 and in Figure 24. This migration has been of critical concern during recent years because foreign students who do not return to their home countries after receipt of the doctorate form one important part of the brain drain.

The data reported in Tables 27 and 28 and in Figure 24 (p. 104) are based on the reports of all United States doctorate recipients of foreign citizenship who indicated the geographic location of their first postdoctoral job.⁸ Do some of these reports indicate hopes or vague plans rather than realities? In order to check this possibility, an additional analysis of the data was made. From the foreign doctorate recipients of 1964-1966, a group was selected who had indicated in the questionnaire that they had "signed a contract or made a definite commitment." Members of this group were not simply seeking employment or negotiating but were contracted to a specific employer. Presumably they were certain of their country of postdoctoral employment. The responses of this group were compared with the responses of the 1964-1966 total foreign citizenship group listed in the right-hand column of Table 27. The two sets of percentages agreed very well. For example, 39 percent of the Canadians said they were remaining in the United States compared with 40 percent reported in Table 27; 93 percent of the Chinese said they were remaining compared with 90 percent from Table 27; and 55 percent of the total said they were remaining

8. The data from this part of the Survey questionnaire have the lowest response rate (about 80 percent) of any reported in this book. The percentages listed in the tables are calculated on the basis of known cases. To the extent that the postdoctoral plans of the nonrespondents (20 percent of the total) differ from the known cases, the patterns reported would be in error.

TABLE 26

Predoctoral Employment Status by Citizenship and Summary Fields, FY 1964 - 1966

Percentage of Doctorate Recipients by Predoctoral Employment Status												
Field of Doctorate	Citizen-ship	Part-Time Employ*	No Employ	Fellow-ship	Full-Time Employed				Working on Research Grant	Other	Status Unknown	Total
					College or University	Elementary or Sec School	Other					
<u>TOTAL ALL FIELDS</u>	U.S. Non U.S.	25 39	5 7	18 20	29 15	5 1	9 4	7 11	1 1	1 2	1 2	100 100
PHYSICAL SCIENCES AND ENGINEERING	U.S. Non U.S.	33 47	4 5	24 17	14 10	— —	10 4	13 16	1 —	1 1	1 1	100 100
BIOLOGICAL SCIENCES	U.S. Non U.S.	30 42	4 7	32 27	16 7	— —	7 4	9 10	1 1	1 2	1 2	100 100
SOCIAL SCIENCES	U.S. Non U.S.	20 31	4 7	18 19	33 26	1 —	15 7	5 5	2 1	2 4	2 4	100 100
ARTS AND HUMANITIES	U.S. Non U.S.	17 20	7 7	10 18	56 44	2 1	3 3	2 2	2 1	1 4	1 4	100 100
PROFESSIONAL FIELDS	U.S. Non U.S.	17 25	6 12	12 24	48 26	— —	12 7	2 1	1 —	1 5	1 5	100 100
EDUCATION	U.S. Non U.S.	19 28	4 18	5 15	35 21	25 7	8 4	2 3	1 1	1 3	1 3	100 100

*Includes research and teaching assistantships.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

in the United States compared with 51 percent reported in Table 27. The data appear to be reliable.

Table 27 shows trends for three 3-year periods in the percentage of United States doctorate recipients of foreign citizenship who intend to remain in the United States for postdoctoral employment. The total number intending to remain almost tripled between FY 1958 - 1960 and FY 1964 - 1966, and the corresponding percentages increased from 46 to 51 percent. Canada, India, Africa (excluding Egypt), Korea, the Philippines, and Australia show definitely increasing percentages of the foreign doctorate recipients intending to remain. Pakistan and Japan show marked decreases, and the remaining regions reveal either no changes or erratic changes.

Within a given time period—1964 - 1966, for instance—there are large regional variations of the percentages intending to remain. For example, 90 percent of the Nationalist Chinese intend to remain as contrasted with 14 percent of the Pakistani doctorate recipients.

TABLE 27

Trends in Percentages of Doctorate Recipients of Foreign Citizenship Intending to Remain in the United States for First Postdoctoral Employment, FY 1958 - 1966

Country of Baccalaureate Institution	Doctorate Recipients Remaining in the U.S.					
	1958-1960		1961-1963		1964-1966	
	N	%	N	%	N	%
TOTAL FOREIGN CITIZENS	1,066	46	1,770	48	2,724	51
CANADA	157	34	226	39	326	40
MEXICO AND CENTRAL AMERICA	4	17	10	22	17	20
SOUTH AMERICA	17	40	15	19	44	33
NORTHWESTERN EUROPE	138	63	187	51	301	55
SOUTHERN EUROPE	52	55	53	54	88	54
EASTERN EUROPE	22	69	43	80	29	59
AFRICA (EXCEPT EGYPT)	4	11	8	15	21	20
NEAR EAST	62	32	132	36	227	34
INDIA	118	35	295	47	498	58
PAKISTAN	7	19	12	18	16	14
CHINA (NATIONALIST)	154	90	239	91	395	90
JAPAN	53	53	73	50	73	48
KOREA	17	38	44	57	79	78
OTHER SOUTHEAST ASIA	4	8	19	21	24	17
AUSTRALIA AND NEW ZEALAND	18	26	40	31	64	26
PHILIPPINES	6	8	20	18	36	31
UNITED STATES	233	69	354	73	486	73

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 28

World Region of First Postdoctoral Employment of United States Doctorate Recipients of Foreign Citizenship by Country of Baccalaureate Institution, FY 1964 - 1966

Doctorate Recipients by Region of Postdoctoral Employment														
Country of Baccalaureate Institution		UNITED STATES	NORTH AND CENTRAL AMERICA	SOUTH AMERICA	NORTHERN EUROPE	CENTRAL EUROPE	WESTERN EUROPE	EASTERN EUROPE	AFRICA	WESTERN ASIA	EASTERN ASIA	AUSTRALASIA	TOTAL	REGION UNKNOWN
<u>TOTAL FOREIGN CITIZENS</u>	N 7	2,724 51	693 13	115 2	136 3	51 1	74 1	24 —	379 7	648 12	253 5	242 5	5,339 100	1,407
<u>CANADA</u>	N 7	326 40	456 56	— —	18 2	2 —	8 1	— —	4 —	3 —	2 —	4 —	823 99	94
<u>MEXICO AND CENTRAL AMERICA</u>	N 7	17 20	64 76	1 1	1 1	— —	— —	— —	— —	1 1	— —	— —	84 99	13
<u>SOUTH AMERICA</u>	N 7	44 33	3 2	84 64	1 1	— —	— —	— —	— —	— —	— —	— —	132 100	24
<u>NORTHWESTERN EUROPE</u>	N 7	301 55	52 10	4 1	92 17	29 5	26 5	1 —	13 2	11 2	8 1	8 1	546 99	84
UNITED KINGDOM	N 7	175 56	35 11	— —	70 23	1 —	1 —	1 —	12 4	8 3	5 2	4 1	312 100	40
GERMANY	N 7	46 55	6 7	1 1	1 1	23 28	2 2	— —	— —	— —	3 4	1 1	83 99	18
<u>SOUTHERN EUROPE</u>	N 7	88 54	4 2	7 4	1 1	9 6	28 17	11 7	4 2	3 2	6 4	1 1	162 100	43
FRANCE	N 7	25 46	1 2	1 2	— —	— —	19 35	— —	3 6	2 4	3 6	— —	54 101	9
ITALY	N 7	11 42	1 4	— —	1 4	8 31	2 8	— —	— —	1 4	1 4	1 4	26 101	5
GREECE	N 7	38 75	1 2	— —	— —	1 2	— —	11 21	— —	— —	— —	— —	51 100	20
<u>EASTERN EUROPE</u>	N 7	29 59	3 6	— —	2 4	1 2	1 2	11 22	— —	2 4	— —	— —	49 99	12
<u>AFRICA (EXCEPT EGYPT)</u>	N 7	21 20	3 3	— —	1 1	— —	2 2	— —	79 75	— —	— —	— —	106 101	7
<u>NEAR EAST</u>	N 7	227 34	8 1	1 —	1 —	3 1	1 —	— —	245 37	176 27	— —	— —	662 100	185
EGYPT	N 7	67 21	2 1	— —	— —	2 1	— —	— —	243 75	10 3	— —	— —	324 101	68
ISRAEL	N 7	65 56	2 2	1 1	1 1	— —	— —	— —	— —	47 40	— —	— —	116 100	35

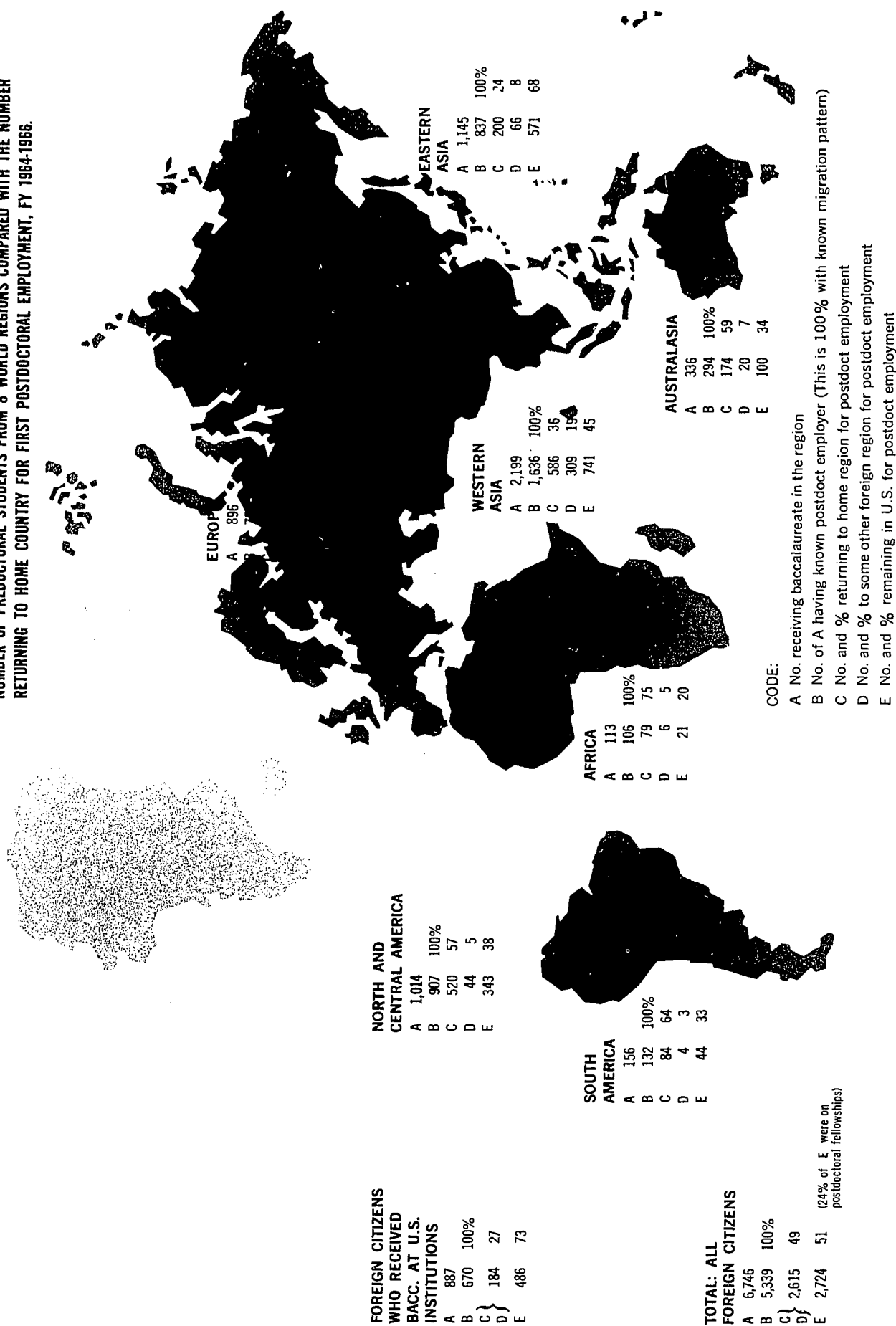
TABLE 28
(continued)

Doctorate Recipients by Region of Postdoctoral Employment														
Country of Baccalaureate Institution		UNITED STATES	NORTH AND CENTRAL AMERICA	SOUTH AMERICA	NORTHERN EUROPE	CENTRAL EUROPE	WESTERN EUROPE	EASTERN EUROPE	AFRICA	WESTERN ASIA	EASTERN ASIA	AUSTRALASIA	TOTAL	REGION UNKNOWN
<u>TURKEY</u>	N	20	1	—	—	—	—	—	1	17	—	—	39	20
	%	51	3	—	—	—	—	—	3	44	—	—	101	
<u>INDIA</u>	N	498	27	—	5	1	1	—	4	317	5	3	861	340
	%	68	3	—	1	—	—	—	—	75	—	—	100	
<u>PAKISTAN</u>	N	16	2	—	—	—	—	—	1	93	1	—	113	38
	%	14	2	—	—	—	—	—	1	82	1	—	100	
<u>CHINA (NATIONALIST)</u>	N	395	9	—	—	1	—	—	—	—	35	—	440	189
	%	90	2	—	—	—	—	—	—	—	7	—	100	
<u>JAPAN</u>	N	73	4	—	2	—	—	—	—	—	74	—	153	34
	%	48	3	—	1	—	—	—	—	—	48	—	100	
<u>KOREA</u>	N	79	3	—	—	—	1	—	—	—	18	—	101	63
	%	78	3	—	—	—	1	—	—	—	18	—	100	
<u>OTHER SOUTHEAST ASIA</u>	N	24	1	—	—	—	—	—	—	—	73	45	143	22
	%	17	1	—	—	—	—	—	—	—	51	31	100	
<u>AUSTRALIA AND NEW ZEALAND</u>	N	64	8	1	3	—	—	—	1	3	1	97	178	15
	%	36	5	—	2	—	—	—	—	2	—	55	100	
<u>PHILIPPINES</u>	N	36	1	—	—	—	—	—	—	—	2	77	116	27
	%	31	1	—	—	—	—	—	—	—	2	66	100	
<u>UNITED STATES</u>	N	486	44	17	9	5	6	1	28	39	28	7	670	217
	%	73	7	3	1	1	1	—	4	6	4	1	101	

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

Figure 24 and the associated Table 28 show the regional migrations that occurred between baccalaureate and first postdoctoral job for the 6,746 persons of foreign citizenship who received doctorates in United States universities between FY 1964-1966. The table has more detailed data, and the figure summarizes the information for eight world regions. Of the 6,746 foreign citizens, 887 had received baccalaureates at United States universities. Data showing the percentage of these 887 who returned to some foreign country and the percentage who remained in the United States for the first job, are displayed next to the United States. Data for the rest are listed on the map in the world region of baccalaureate. For example, 896 of the doctorate recipients had taken baccalaureate degrees in European countries. Of these, 757 had indicated on the Survey of Earned Doctorates questionnaire where they were going to work on their first postdoctoral job—28 percent (212 of 757) were returning to Europe;

FIGURE 24
NUMBER OF PREDOCTORAL STUDENTS FROM 8 WORLD REGIONS COMPARED WITH THE NUMBER
RETURNING TO HOME COUNTRY FOR FIRST POSTDOCTORAL EMPLOYMENT, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

17 percent were leaving the United States but for a non-European country; and the remaining 55 percent intended to stay in the United States for the first postdoctoral position.

Of all the foreign citizens, one half remained in the United States and the other half returned to their own or some other foreign country. But it should be noted that 24 percent of those who remained were on postdoctoral fellowships and so were continuing their education.

Students of Africa, the Americas, and Australasia have the highest "return home" rates; Eastern Asians and the foreign students who received baccalaureates in the United States have the lowest return rates. Table 28 provides more detailed migration data.

It should be remembered that these data refer to the intended first postdoctoral job, and the above patterns may or may not correspond well to the distribution of the foreign doctoral students five or more years later. The data do show, however, that the foreign students from most regions are in no great hurry to leave the United States.

Table 29 shows the intended postdoctoral work activity of the 6,746 foreign students distributed by world region of employment.

Three fourths of the group reported research or teaching as their major work activity, and postdoctoral fellowships accounted for most of the remainder. Higher percentages of the foreign doctorate recipients enter research and postdoctoral fellowships than their United States counterparts; lower percentages enter teaching and administration. Most of the fellowships for the foreign students were granted to those remaining in the United States.

The proportion of the foreign doctorate recipients entering research as opposed to teaching reveals large variations depending on the geographic region to which they return. Those returning to Europe and South America and those remaining in the United States are more heavily engaged in research; those returning to other foreign countries have larger numbers entering teaching.

In summary, the preceding data show the following patterns characteristic of foreign students who receive doctorates at United States universities:

- The number of foreign students coming to the United States for doctoral education is growing rapidly. They form an increasing percentage of the total United States doctorate recipients.
- The "source countries" have changed in recent years—India, the Near East, Japan, and Korea showing strong gains. A relatively small percentage of foreign institutions furnishes most of the students who come to the United States.
- Foreign students who receive the doctorate concentrated heavily in the natural sciences, and they completed their doctoral work as fast as, or faster than, the United States students.
- Increasing percentages intend to remain in the United States for their first job, the recent totals approaching one half.
- In their first postdoctoral work activities, the foreign doctorate recipients are primarily engaged in teaching (38 percent), research (37 percent), and postdoctoral fellowship research (15 percent).

TABLE 29
Type of First Postdoctoral Work Activity of Doctorate Recipients of Foreign Citizenship, FY 1964 - 1966

Doctorate Recipients by Postdoctoral Work Activity														
World Region of Postdoctoral Employment	Fellowship		Research		Teaching		Administra- tion		Professional Services		Other	Total N (100 %)	Activity Unknown N	
	N	%	N	%	N	%	N	%	N	%				
TOTAL FOREIGN CITIZENS	889	15	2,185	37	2,254	38	160	3	83	1	329	6	5,900	846
UNITED STATES	631	24	1,037	39	845	31	18	1	35	1	115	4	2,681	43
NORTH AND CENTRAL AMERICA	43	6	207	31	332	50	33	5	10	1	45	7	670	23
SOUTH AMERICA	1	1	55	49	44	39	2	2	1	1	9	5	112	3
NORTHERN EUROPE	38	29	49	37	31	24	2	1	1	1	10	5	131	5
CENTRAL EUROPE	12	25	25	51	8	16	—	—	—	—	4	5	49	2
WESTERN EUROPE	14	20	31	44	13	15	2	3	3	1	8	11	71	3
EASTERN EUROPE	—	—	12	57	3	14	1	5	—	—	5	24	21	3
AFRICA	10	3	124	36	170	49	15	1	1	—	29	5	349	30
WESTERN ASIA	11	2	169	29	301	52	47	5	9	2	43	7	580	68
EASTERN ASIA	3	1	66	29	132	57	14	6	5	2	12	5	232	21
AUSTRALASIA	5	2	63	27	124	54	17	7	8	3	15	7	232	10
REGION UNKNOWN	121	16	347	45	251	33	9	1	10	1	34	5	772	635

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

CHAPTER V WOMEN DOCTORATE RECIPIENTS

- EDUCATION
- EMPLOYMENT

EDUCATION

Women receive 40 percent of the baccalaureate degrees granted in the United States, and the percentage is increasing. They receive 32 percent of the master's degrees, but this proportion has remained constant for many years. The percentage of women among United States doctorate recipients dropped from 15 to 9 percent between 1920 and 1950, but a gradual increase restored the value to 11 percent by 1960.⁹ Since 1960, the proportion of women among all doctorate recipients has remained constant, not only for the total, but for each summary field (see Table 30). Academic fields vary greatly in ability to attract women. Only 10 percent of the women received doctorates in the physical sciences, and women accounted for a mere 3 percent of all physical science doctorate recipients. In contrast, 29 percent and 23 percent received degrees in education and the arts and humanities, and they comprised almost one fifth of the doctorate recipients in these fields. Figure 25 shows the distribution of women and men among the various fields.

These data indicate that the efforts since World War II to interest larger percentages of able women in continuing their education to the doctorate, and especially to consider careers in the physical sciences, have had little effect. However, it should be noted that the total number of women doctorate recipients has been increasing. In 1950, 613 women received the doctorate. From 1960 to 1966, the period in which the percentage of women receiving the doctorate remained unchanged (11 percent of the total), the number doubled—from 1,042 to 2,073.

A comparison of the geographic distribution of women and men doctorate recipients at the times of their receiving the baccalaureate and the doctorate is shown in Figure 26 (p. 110). Considering the large amount of migration that occurs at various career stages (Table 22, p. 92), the distributions show remarkable correspondences between the percentages of men and women in a given region at a given educational level. The Middle Atlantic region does have a somewhat higher proportion of women than men at both baccalaureate and doctoral levels, and the West North Central and Mountain regions have slightly lower percentages of women, but these are relatively small deviations from the over-all pattern of approximately equal distributions.

9. NAS-NRC, Publ. 1142, *op. cit.*, pp. 47-53.

TABLE 30

Women Doctorate Recipients by Field, FY 1958 - 1966

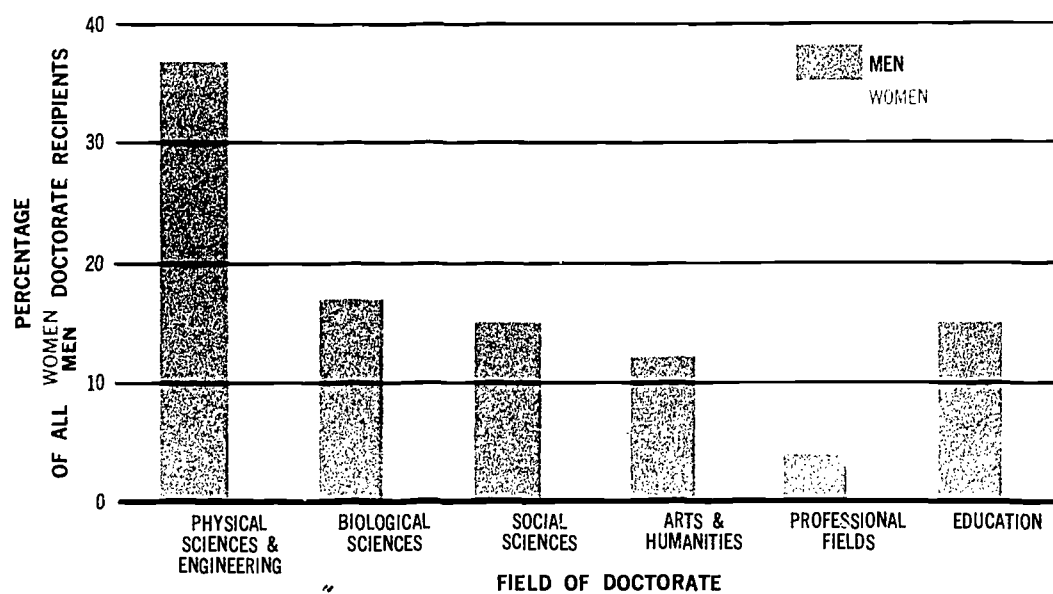
Field of Doctorate	Women Doctorate Recipients					
	1958-1960		1961-1963		1964-1966	
	N		N		N	
<u>TOTAL ALL FIELDS</u>	<u>3,009</u>	<u>100.0</u>	<u>3,754</u>	<u>100.0</u>	<u>5,387</u>	<u>100.0</u>
<u>PHYSICAL SCIENCES AND ENGINEERING</u>	<u>224</u>	<u>7.4</u>	<u>325</u>	<u>8.7</u>	<u>518</u>	<u>9.6</u>
MATHEMATICS	42	1.4	67	1.8	131	2.4
PHYSICS AND ASTRONOMY	29	1.0	31	0.8	64	1.2
Elementary Particles	2	-	6	-	5	-
Solid State	6	-	4	-	16	-
CHEMISTRY	134	4.4	198	5.3	281	5.2
Organic	51	-	73	-	108	-
Physical	32	-	54	-	88	-
EARTH SCIENCES	11	0.3	11	0.3	18	0.3
ENGINEERING	8	0.3	18	0.5	24	0.4
Chemical	1	-	4	-	4	-
Electrical	2	-	2	-	6	-
<u>BIOLOGICAL SCIENCES</u>	<u>459</u>	<u>15.3</u>	<u>562</u>	<u>15.0</u>	<u>860</u>	<u>15.9</u>
AGRICULTURE AND FORESTRY	22	0.7	15	0.4	28	0.5
HEALTH SCIENCES	42	1.4	37	1.0	77	1.4
BIOCHEM, BIOPHYS, PHYSIOLOGY, BIOSTATISTICS	145	4.8	202	5.4	328	6.1
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	124	4.1	189	5.0	255	4.7
ECOLOGY, HYDROBIOLOGY	8	0.3	5	0.2	6	0.1
BOTANY, ZOOLOGY, GENERAL BIOLOGY	118	3.9	114	3.0	166	3.1
<u>SOCIAL SCIENCES</u>	<u>670</u>	<u>22.3</u>	<u>795</u>	<u>21.2</u>	<u>1,044</u>	<u>19.4</u>
PSYCHOLOGY	413	13.7	481	12.8	633	11.7
ANTHROPOLOGY, ARCHEOLOGY	53	1.8	45	1.2	57	1.1
SOCIOLOGY	75	2.5	97	2.6	105	2.0
ECONOMICS, ECONOMETRICS	33	1.1	56	1.5	69	1.3
POLITICAL SCIENCE, INT RELATIONS	50	1.7	55	1.5	99	1.8

TABLE 30
(continued)

Field of Doctorate	Women Doctorate Recipients					
	1958-1960		1961-1963		1964-1966	
	N		N		N	
ARTS AND HUMANITIES	640	1.1	802	1.1	1,233	1.1
HISTORY	115	0.2	113	0.2	186	0.2
ENGLISH AND AMERICAN LANG AND LIT	189	0.3	282	0.3	401	0.3
MODERN FOREIGN LANG AND LIT	166	0.3	183	0.2	358	0.3
CLASSIC LANG AND LIT	14	0.0	25	0.0	39	0.0
PHILOSOPHY	37	0.0	48	0.0	51	0.0
SPEECH AND DRAMATIC ARTS	56	0.0	75	0.0	92	0.0
FINE ARTS AND MUSIC	61	0.0	71	0.0	95	0.0
PROFESSIONAL FIELDS	107	0.0	150	0.0	180	0.0
BUSINESS ADMINISTRATION	13	0.0	10	0.0	22	0.0
RELIGION AND THEOLOGY	27	0.0	31	0.0	24	0.0
EDUCATION	909	0.0	1,120	0.0	1,552	0.0

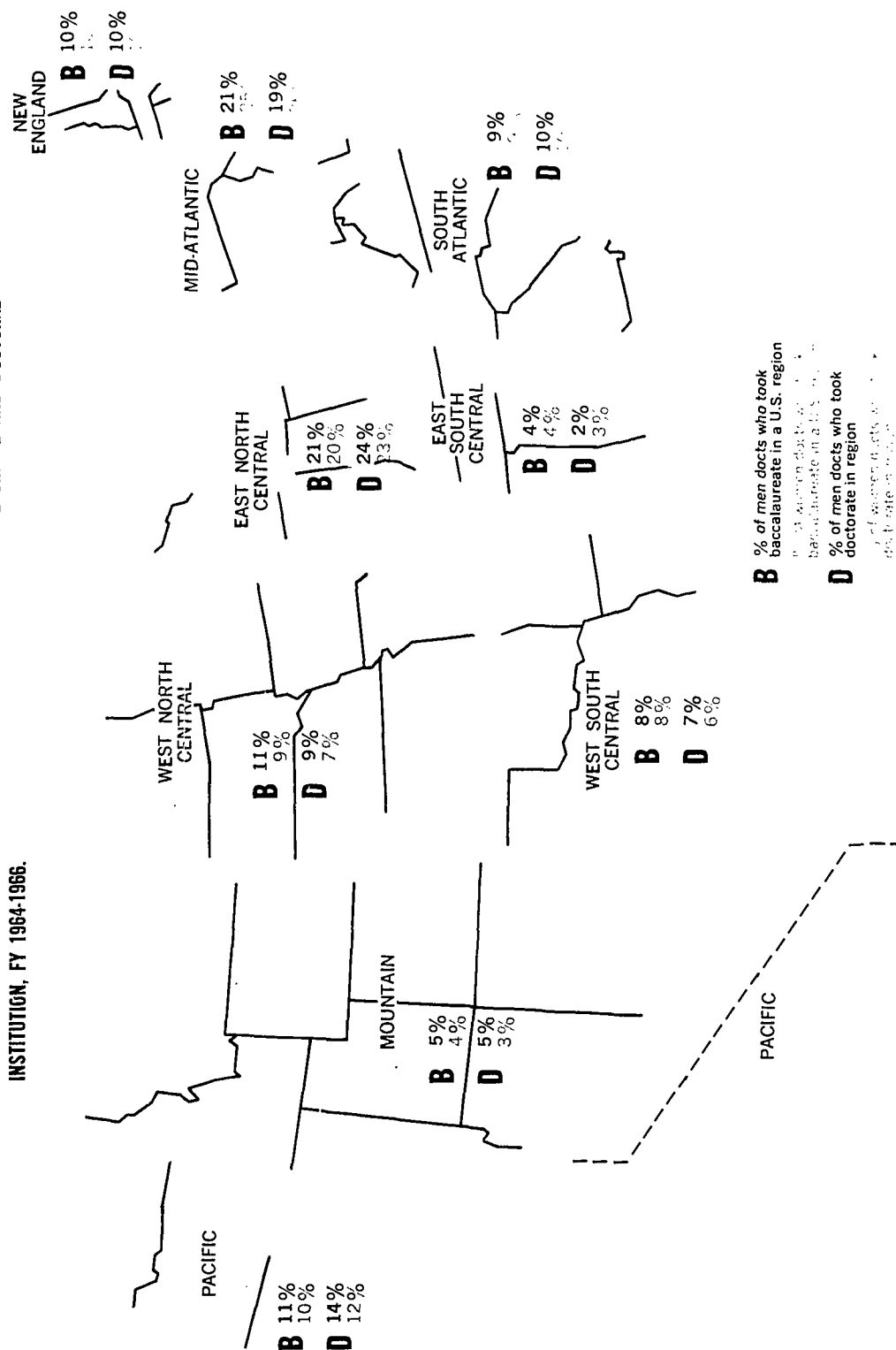
Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 25
DOCTORATE RECIPIENTS BY SEX
AND SUMMARY FIELD,
FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 26
DOCTORATE RECIPIENTS BY SEX AND GEOGRAPHIC REGION OF BACCALAUREATE AND DOCTORAL
INSTITUTION, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

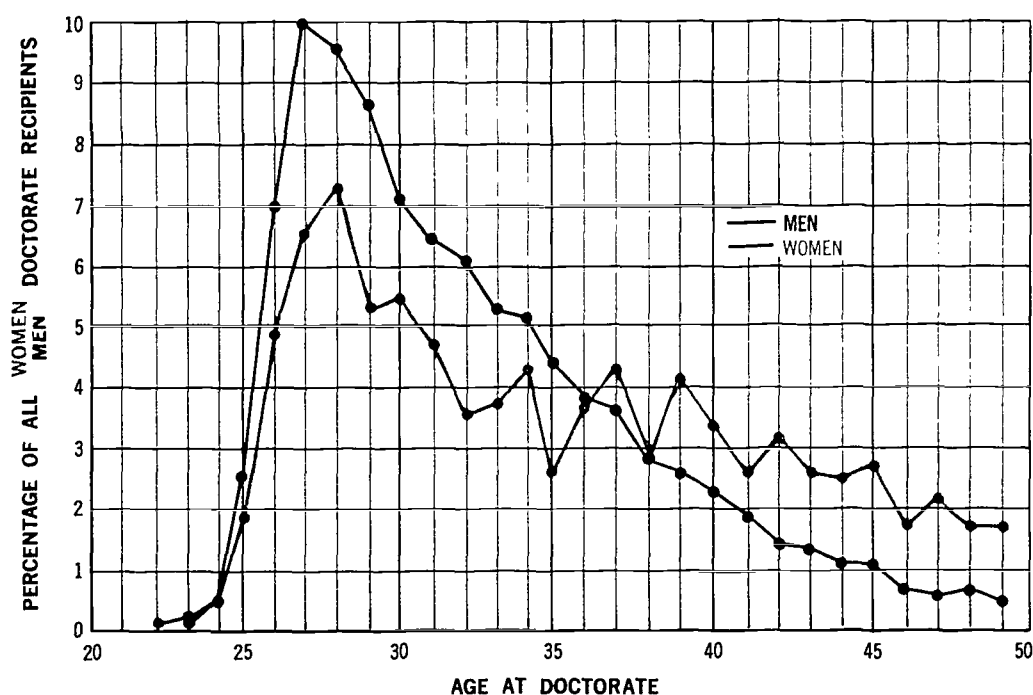
The data in Figure 26 refer to United States women, but an additional 9 percent of the doctorate recipients from foreign countries were women (compared with 11 percent for the United States group). The percentage varied greatly from region to region, as illustrated in the following examples:

Region	% Women
Philippines	33
Southern Europe	14
Latin America	13
China	12
—	—
—	—
India	6
Australia	4
Africa	2

Figure 27 shows distributions of age at the doctorate for men and women, all fields combined. The modal ages are about the same—27 for men and 28 for women—but a smaller percentage of women complete graduate work to the doctorate with minimal interruption. As a result, larger percentages of women receive doctorates after age 40 (30 percent compared with 10 percent for men), and the median age at the doctorate for women is 35 compared with 31 for men.

The median age at the doctorate for men and women in the natural sciences differs by less than one year—women being slightly younger; in the social sciences and arts and humanities women are older than men by about two years; and in professional fields and education the women are three to five years older. These age differences reflect differences in graduate-school-attendance patterns and field mores rather than academic aptitude. Women are more concentrated in fields with long total-time lapse (arts and humanities and education), and they have more breaks in their graduate-school attendance (see Table 31). Women have longer total-time lapse than men in almost every field, but when registered times are compared, the time lapses are almost identical.

FIGURE 27
DISTRIBUTION OF DOCTORATE
RECIPIENTS BY AGE AT DOCTORATE
AND BY SEX, FY 1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 31

Median Age at Doctorate and Time Lapse from Baccalaureate to Doctorate by Sex and Field, FY 1964 - 1966

Field of Doctorate	Sex	Median Years from Baccalaureate to Doctorate (1964-66 doctorates)		Median Age at Doctorate (1966 doctorates)
		Total Time	Registered Time	
<u>TOTAL ALL FIELDS</u>	M	7.9 yrs	5.3 yrs	31.5 yrs
	F	<u>11.2</u>	<u>5.9</u>	<u>35.3</u>
<u>PHYSICAL SCIENCES AND ENGINEERING</u>	M	6.3	5.1	29.3
	F	<u>6.3</u>	<u>5.1</u>	<u>28.7</u>
MATHEMATICS	M	5.9	5.0	28.4
	F	6.9	5.1	29.4
PHYSICS AND ASTRONOMY	M	6.4	5.6	29.0
	F	6.3	5.3	—
Elementary Particles	M	5.9	5.3	28.3
	F	—	—	—
Solid State	M	6.6	5.8	29.4
	F	—	—	—
CHEMISTRY	M	5.5	4.8	28.3
	F	6.0	5.0	28.4
Organic	M	5.2	4.6	27.8
	F	5.6	4.8	28.3
Physical	M	5.8	4.9	28.4
	F	6.2	5.1	28.4
EARTH SCIENCES	M	7.6	5.5	31.0
	F	—	—	—
ENGINEERING	M	6.9	5.1	30.2
	F	—	—	—
Chemical	M	5.9	4.7	28.6
	F	—	—	—
Electrical	M	6.8	5.3	30.1
	F	—	—	—
<u>BIOLOGICAL SCIENCES</u>	M	7.3	5.3	31.1
	F	<u>7.9</u>	<u>5.3</u>	<u>30.3</u>
AGRICULTURE AND FORESTRY	M	7.8	5.1	32.3
	F	8.3	4.9	—
HEALTH SCIENCES	M	8.3	5.6	32.2
	F	10.1	5.3	33.3
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	M	6.7	5.3	29.7
	F	7.1	5.2	29.8
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	M	7.3	5.3	30.8
	F	8.2	5.6	30.6
ECOLOGY, HYDROBIOLOGY	M	7.3	5.3	30.6
	F	—	—	—
BOTANY, ZOOLOGY, GENERAL BIOLOGY	M	7.2	5.4	31.1
	F	7.6	5.6	29.7

TABLE 31
(continued)

Field of Doctorate	Sex	Median Years from Baccalaureate to Doctorate (1964-66 doctorates)		Median Age at Doctorate (1966 doctorates)
		Total Time	Registered Time	
<u>SOCIAL SCIENCES</u>	M	7.8 yrs	5.2 yrs	31.7 yrs
	F	<u>9.8</u>	<u>5.9</u>	<u>33.7</u>
PSYCHOLOGY	M	6.8	5.4	30.4
	F	9.0	6.0	31.9
ANTHROPOLOGY, ARCHEOLOGY	M	9.2	5.3	33.6
	F	10.8	6.4	—
SOCIOLOGY	M	8.9	5.8	32.7
	F	11.3	5.9	39.4
ECONOMICS, ECONOMETRICS	M	7.9	4.9	32.2
	F	8.0	5.2	30.6
POLITICAL SCIENCE, INT RELAT	M	8.6	5.2	31.8
	F	8.9	6.0	30.0
<u>ARTS AND HUMANITIES</u>	M	9.2	5.7	33.3
	F	<u>10.8</u>	<u>5.9</u>	<u>35.3</u>
HISTORY	M	8.8	5.7	32.5
	F	10.0	6.1	35.6
ENGLISH AND AMERICAN LANG AND LIT	M	9.5	5.8	33.1
	F	10.9	5.9	34.3
MODERN FOREIGN LANG AND LIT	M	9.3	5.6	34.0
	F	10.0	5.7	34.3
CLASSIC LANG AND LIT	M	8.2	5.6	32.6
	F	9.7	5.6	—
PHILOSOPHY	M	7.3	5.3	30.3
	F	8.5	6.5	—
SPEECH AND DRAMATIC ARTS	M	9.9	5.1	34.5
	F	15.5	5.8	39.8
FINE ARTS AND MUSIC	M	12.1	5.8	36.1
	F	12.5	6.8	39.5
<u>PROFESSIONAL FIELDS</u>	M	10.5	6.1	34.3
	F	<u>14.8</u>	<u>5.2</u>	<u>39.4</u>
BUSINESS ADMINISTRATION	M	9.5	5.3	33.4
	F	—	—	—
RELIGION AND THEOLOGY	M	11.5	7.3	34.8
	F	—	—	—
<u>EDUCATION</u>	M	13.3	6.8	37.8
	F	<u>16.0</u>	<u>6.8</u>	<u>41.2</u>

Note: Medians were not calculated for groups with less than 25 known cases.

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

EMPLOYMENT

After completing formal education, the first employment pattern for women is generally similar to that of men, but some differences do exist. Figure 28 compares the type of first postdoctoral employer for men and for women, all fields combined. For both sexes, educational institutions are by far the major employers, accounting for four out of five women and two out of three men. The most noticeable difference in pattern is in the percentage choosing industry (13 percent of the men compared to 2 percent of the women).

Table 32 provides more detailed data on postdoctoral employment practices in various fields. The physical sciences and engineering show the greatest differences in employment of men and of women, but even here the rank order is the same. Smaller percentages of men enter education, and larger percentages go into industry and government.

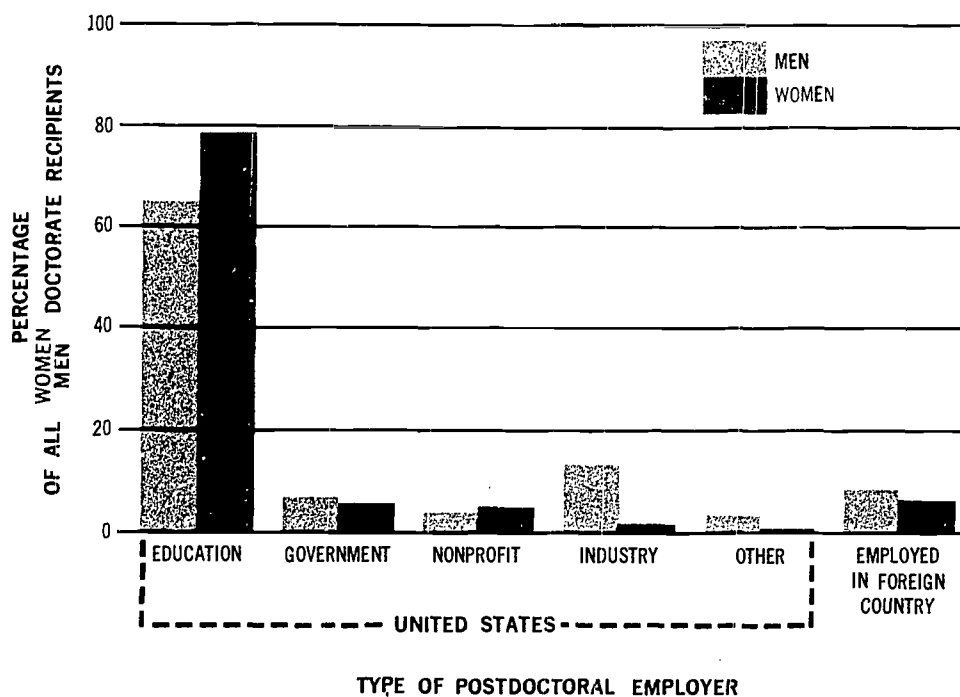
The biological sciences and professional fields show the same general pattern as the physical sciences, but the employment patterns of men and of women differ less than in the physical sciences. The social sciences, arts and humanities, and education show little difference in employment pattern between men and women even though the fields differ considerably from each other in other respects.

The type of employer determines to some extent the kind of work activity performed, so the patterns exhibited in Figure 29 and Table 33 (pp. 118, 119) are what one would expect.

Teaching is the major postdoctoral work activity for both sexes, but women are more concentrated in this activity than men. This is consistent with the previous findings that a greater percentage of women doctorate recipients receive their degree in the fields of education and the arts and humanities and that graduates of these fields are largely employed by colleges and universities.

Men are more likely than women to continue in research, but, even so, fewer than one third of the men and one sixth of the women do research as a primary postdoctoral work activity. If fellowship activities are regarded primarily as research, then two fifths of the men and one fourth of the women are primarily engaged in research in their first postdoctoral employment.

FIGURE 28
TYPE OF FIRST POSTDOCTORAL
EMPLOYER BY SEX, FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

TABLE 32

Type of First Postdoctoral Employer by Sex and Field, FY 1964 - 1966

Doctorate Recipients by Type of Postdoctoral Employer																
Field of Doctorate	Sex	Educational Institution		Government		Nonprofit		Industry		Other		Foreign		Total with Known Employer		Employer Unknown
		N	F	N	F	N	F	N	F	N	F	N	F	N	F	
TOTAL ALL FIELDS																
	M	25,748	64	2,667	7	1,507	1	5,397	13	1,081	3	3,631	9	40,031	9	3,073
	F	3,696	79	254	6	253	5	102	2	46	1	330	1	4,681	1	706
PHYSICAL SCIENCES AND ENGINEERING																
	M	6,959	47	830	6	486	3	4,492	31	596	1	1,290	9	14,653	9	1,296
	F	305	71	15	1	12	3	48	11	1	—	48	11	429	11	89
MATHEMATICS																
	M	1,318	73	47	3	54	3	187	10	39	2	154	9	1,799	9	110
	F	98	26	—	—	4	1	4	1	—	—	7	—	113	—	18
PHYSICS AND ASTRONOMY																
	M	1,444	55	227	9	101	4	480	18	125	3	233	9	2,610	9	285
	F	28	60	2	1	—	—	8	17	—	—	9	19	47	19	17
Elementary Particles																
	M	313	69	19	1	21	5	27	6	22	5	52	11	454	11	29
	F	2	67	—	—	—	—	1	33	—	—	—	—	3	—	2
Solid State																
	M	341	46	61	3	24	3	228	30	31	1	64	9	749	9	40
	F	8	58	—	—	—	—	3	21	—	—	3	1	14	1	2
CHEMISTRY																
	M	1,557	42	170	5	82	2	1,470	40	131	1	296	7	3,706	7	383
	F	162	70	10	1	6	3	31	13	—	—	24	10	233	10	48
Organic																
	M	570	37	48	3	29	2	736	48	50	2	103	7	1,536	7	136
	F	61	66	2	2	3	3	17	19	—	—	9	10	92	10	16
Physical																
	M	462	41	64	6	26	3	355	11	44	1	98	9	1,049	9	88
	F	47	66	5	1	2	3	9	4	—	—	8	11	71	11	17
EARTH SCIENCES																
	M	435	41	147	15	33	3	210	31	30	1	129	1	984	1	83
	F	9	60	1	1	1	1	—	—	1	—	3	19	15	19	3
ENGINEERING																
	M	2,205	40	239	1	216	3	2,145	19	271	1	478	1	5,554	1	435
	F	8	38	2	9	1	1	5	21	—	—	5	10	21	10	3
Chemical																
	M	204	22	24	3	14	1	579	6	34	1	64	1	919	1	84
	F	—	—	1	25	—	—	3	11	—	—	—	—	4	—	—
Electrical																
	M	470	42	43	1	60	1	416	17	42	1	77	1	1,108	1	95
	F	2	50	—	—	—	—	—	—	—	—	2	—	4	—	2

TABLE 32
(continued)

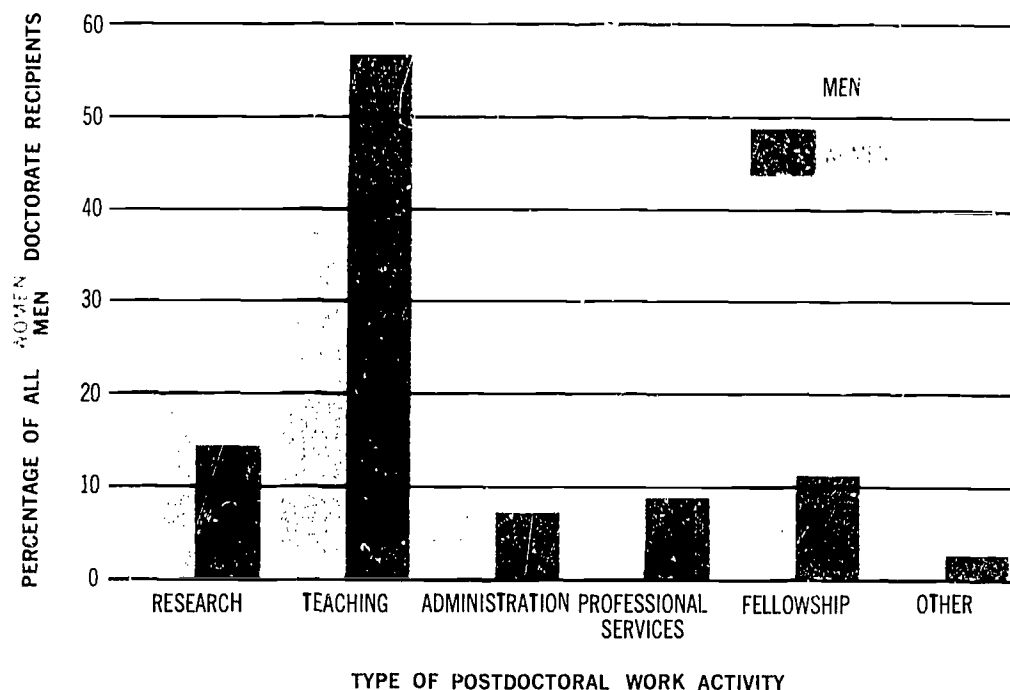
Doctorate Recipients by Type of Postdoctoral Employer																
Field of Doctorate	Sex	Educational Institution		Government		Nonprofit		Industry		Other		Foreign		Total with Known Employer		Employer Unknown
		N	%	N	%	N	%	N	%	N	%	N	%	N	%	
BIOLOGICAL SCIENCES	M	3,740	58	721	11	245	1	492	7	178	3	1,045	17	6,421	630	
	F	519	70	55	8	44	6	24	3	6	1	90	1	738	122	
AGRICULTURE AND FORESTRY	M	721	49	192	13	13	1	139	10	23	2	368	10	1,456	181	
	F	12	55	—	—	—	—	2	9	—	—	8	3	22	6	
HEALTH SCIENCES	M	382	54	76	11	33	5	104	11	30	1	87	1	712	67	
	F	47	67	7	10	3	4	5	7	1	2	7	3	70	7	
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	M	1,068	61	164	9	97	6	117	7	50	5	249	11	1,745	140	
	F	195	70	16	6	26	9	10	1	3	1	29	3	279	49	
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	M	773	54	196	14	73	5	108	8	51	1	218	11	1,419	135	
	F	163	71	25	11	12	5	5	2	—	—	25	1	230	25	
ECOLOGY, HYDROBIOLOGY	M	81	65	20	16	5	1	1	1	3	3	14	1	124	10	
	F	4	67	—	—	—	—	—	—	—	—	2	1	6	—	
BOTANY, ZOOLOGY, GENERAL BIOLOGY	M	715	71	73	8	24	3	23	2	21	2	109	11	965	98	
	F	98	75	7	5	3	2	2	2	2	2	19	13	131	35	
SOCIAL SCIENCES	M	3,842	65	715	12	378	6	239	1	184	1	555	17	5,913	390	
	F	568	64	118	13	119	13	16	2	19	1	55	2	895	149	
PSYCHOLOGY	M	1,330	57	459	20	230	10	122	5	84	1	104	1	2,329	139	
	F	298	55	102	19	95	18	10	2	14	5	19	3	538	95	
ANTHROPOLOGY, ARCHEOLOGY	M	174	78	9	1	6	3	—	—	2	1	31	1	222	15	
	F	39	76	1	2	5	10	—	—	—	—	6	1	51	6	
SOCIOLOGY	M	450	80	22	1	25	1	5	1	9	2	54	4	565	28	
	F	83	88	1	1	2	2	—	—	2	1	6	1	94	11	
ECONOMICS, ECONOMETRICS	M	962	63	136	9	62	1	85	6	53	1	226	10	1,524	116	
	F	36	63	6	11	3	5	2	1	—	1	10	1	57	12	
POLITICAL SCIENCE, INT RELATIONS	M	707	71	71	7	34	1	18	1	28	1	94	1	952	77	
	F	62	75	4	9	4	1	3	1	1	1	8	1	82	17	

TABLE 32
(continued)

Doctorate Recipients by Type of Postdoctoral Employer																
Field of Doctorate	Sex	Educational Institution		Government		Nonprofit		Industry		Other		Foreign		Total with Known Employer		Employer Unknown
		N		N		N		N		N		N		N		
<u>ARTS AND HUMANITIES</u>	M	4,730	90	69	1	81	2	29	1	44	1	320	1	5,273	299	
	F	967	92	11	1	17	2	3	3	6	6	50	1	1,054	179	
HISTORY	M	1,312	56	40	1	33	1	5	1	19	1	91	1	1,500	93	
	F	139	90	2	1	6	1	—	—	2	2	6	—	155	31	
ENGLISH AND AMERICAN LANG AND LIT	M	1,304	93	1	—	5	—	3	—	11	1	77	—	1,401	61	
	F	323	91	1	—	2	—	1	—	2	2	16	—	345	56	
MODERN FOREIGN LANG AND LIT	M	699	58	9	1	9	1	4	—	5	1	69	1	795	53	
	F	286	92	—	—	3	1	1	1	1	1	22	—	313	45	
CLASSIC LANG AND LIT	M	154	51	—	—	5	1	1	1	2	1	22	1	184	14	
	F	29	91	1	—	—	—	—	—	—	—	2	—	32	7	
PHILOSOPHY	M	352	57	—	—	10	1	4	1	—	—	37	1	403	32	
	F	37	90	1	—	1	—	—	—	—	—	2	—	41	10	
SPEECH AND DRAMATIC ARTS	M	509	112	17	1	12	1	8	1	3	3	6	1	555	23	
	F	72	59	5	1	2	1	1	1	1	1	—	—	81	11	
FINE ARTS AND MUSIC	M	371	91	2	—	7	1	3	1	4	4	16	1	403	20	
	F	73	93	—	—	3	1	—	—	—	—	2	—	78	17	
<u>PROFESSIONAL FIELDS</u>	M	1,095	1	25	—	117	1	88	1	41	1	148	1	1,514	166	
	F	122	1	1	—	3	1	2	1	1	1	13	1	142	38	
BUSINESS ADMINISTRATION	M	638	1	9	—	13	—	75	1	25	1	58	1	818	61	
	F	15	1	—	—	—	—	—	—	—	—	1	—	16	6	
RELIGION AND THEOLOGY	M	335	1	2	—	98	1	—	—	1	1	44	1	480	46	
	F	14	1	—	—	2	—	—	—	—	—	—	—	16	8	
<u>EDUCATION</u>	M	5,382	1	307	1	200	1	57	1	38	1	273	1	6,257	292	
	F	1,215	1	54	1	58	1	9	1	13	1	74	1	1,423	129	

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

FIGURE 29
TYPE OF FIRST POSTDOCTORAL
WORK ACTIVITY BY SEX,
FY 1964-1966.



Source: NRC, Office of Scientific Personnel, Doctorate Records File.

The preceding data have emphasized the following points regarding women doctorate recipients:

- They account for one ninth of all United States doctorates; they are more concentrated in the arts and humanities and education and less concentrated in the physical sciences.
- They are distributed geographically in about the same proportion as men.
- They are older at receipt of the doctorate than the men, but registered-time lapse is the same for both.
- Four fifths of them take their first job with educational institutions where they either teach or have postdoctoral fellowships.

TABLE 33

Type of First Postdoctoral Work Activity by Sex and Field, FY 1962 - 1966

Field of Doctorate	Doctorate Recipients by Postdoctoral Work Activity											
	Fellowship		Research		Teaching		Administra- tion		Professional Services		Other	
	N	Sex	N		N		N		N		N	
TOTAL ALL FIELDS	6,263	M	11	17,166	30	24,302	42	4,442	2,220	3,033	57,426	7,279
	670	F	10	1,094	16	3,668	55	483	530	240	6,685	1,328
PHYSICAL SCIENCES AND ENGINEERING	3,213	M	16	10,341	50	5,480	26	254	53	1,426	20,767	2,911
	153	F	25	198	33	240	39	2	—	15	608	149
MATHEMATICS	188	M	5	777	31	1,328	51	16	11	144	2,464	267
	5	F	3	31	21	108	71	2	—	6	152	29
PHYSICS AND ASTRONOMY	796	M	21	2,182	57	696	15	32	5	117	3,328	571
	14	F	22	36	55	15	23	—	—	—	65	23
Elementary Particles	148	M	22	405	60	92	11	1	2	23	671	73
	1	F	12	4	50	3	35	—	—	—	8	3
Solid State	204	M	20	597	55	190	19	7	—	27	1,025	97
	3	F	19	11	69	2	12	—	—	—	16	3
CHEMISTRY	1,638	M	30	2,793	51	811	15	39	5	146	5,432	940
	126	F	37	113	33	97	25	—	—	6	342	81
Organic	664	M	31	1,273	57	245	11	9	1	57	2,251	361
	55	F	35	48	37	23	15	—	—	2	128	33
Physical	544	M	31	763	15	219	11	10	1	41	1,578	224
	40	F	37	39	36	29	25	—	—	1	109	19
EARTH SCIENCES	144	M	10	668	16	404	25	14	11	216	1,457	172
	4	F	21	4	21	10	35	—	—	1	19	8
ENGINEERING	447	M	6	3,921	32	2,241	13	153	21	803	7,586	961
	4	F	13	14	17	10	—	—	—	2	30	8
Chemical	98	M	7	785	41	219	17	24	1	169	1,296	156
	1	F	12	6	73	—	—	—	—	1	8	—
Electrical	74	M	5	817	30	464	11	23	2	141	1,521	201
	—	F	—	—	—	3	—	—	—	1	4	3

TABLE 33
(continued)

Field of Doctorate	Sex	Fellowship		Research		Teaching		Administra- tion		Professional Services		Other		Total with Known Activity		Activity Unknown	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
BIOLOGICAL SCIENCES	M	2,285	25	3,910	42	2,338	25	161	2	96	1	477		9,267		1,439	
	F	364	4	363	35	269	26	10	1	8	1	18		1,032		225	
AGRICULTURE AND FORESTRY	M	180	9	1,200	58	462	22	51	2	10		184		2,087		473	
	F	4	13	19	61	7	23					1		31		9	
HEALTH SCIENCES	M	182	18	423	12	237	24	31	3	56	6	75		1,004		153	
	F	19	22	27	30	26	30	7	8	4	1	5		88		18	
BIOCHEM, BIOPHYS, PHYSIOL, BIostatIST	M	1,076	43	947	38	371	15	22	9	16	6	90		2,522		266	
	F	175	45	134	34	72	18	1		2	1	7		391		79	
ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	M	543	27	899	14	458	22	38	2	14	1	94		2,046		308	
	F	123	37	118	36	83	25	2		2		3		331		61	
ECOLOGY, HYDROBIOLOGY	M	19	10	72	76	101	50	4	2			5		201		32	
	F			3	37	5	63							8		2	
BOTANY, ZOOLOGY, GENERAL BIOLOGY	M	285	20	369	26	709	51	15	1			29		1,407		207	
	F	43	23	62	34	76	42					2		183		56	
SOCIAL SCIENCES	M	560	6	2,062	24	4,183	48	347	4	1,114	13	467		8,733		1,040	
	F	99	7	323	25	492	38	40	3	302	23	51		1,307		273	
PSYCHOLOGY	M	422	12	858	24	1,029	29	85	2	1,012	29	139		3,544		357	
	F	84	11	192	24	175	22	19	3	286	36	29		786		163	
ANTHROPOLOGY, ARCHEOLOGY	M	22	6	81	24	219	64	8	2	2	1	10		342		38	
	F	8	10	24	39	44	55					4		80		13	
SOCIOLOGY	M	29	4	212	25	531	64	27	3	19	2	15		833		92	
	F	1	1	38	28	85	62	4		5	1	3		136		32	
ECONOMICS, ECONOMETRICS	M	39	2	671	51	1,173	54	78		36		177		2,174		294	
	F	2	2	29	33	52	59	1	1	1	1	3		88		21	
POLIT SCIENCE, INT RELATIONS	M	45	3	152	11	918	68	119	3	15	1	104		1,353		205	
	F	2	2	22	29	67	63	8		2		6		107		30	

TABLE 33
(continued)

Doctorate Recipients by Postdoctoral Work Activity																	
Field of Doctorate	Sex		Fellowship		Research		Teaching		Administra- tion		Professional Services		Other		Total with Known Activity		Activity Unknown
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N (100)	%	
<u>ARTS AND HUMANITIES</u>	M	124	2	245	3	6,666	89	216	3	100	1	176	2	7,527	2	701	
	F	31	2	69	5	1,303	87	33	2	11	1	49	1	1,496	1	306	
<u>HISTORY</u>	M	40	2	76	4	1,762	87	69	3	17	1	67	1	2,031	1	230	
	F	9	1	11	5	195	86	6	3	—	—	5	—	226	—	47	
<u>ENGLISH AND AMERICAN LANG AND LIT</u>	M	13	1	18	1	1,942	95	35	2	3	—	26	1	2,037	1	175	
	F	4	1	8	2	474	93	10	2	—	—	12	—	508	—	99	
<u>MODERN FOREIGN LANG AND LIT</u>	M	15	1	70	6	987	89	15	1	6	1	22	2	1,115	2	99	
	F	9	2	26	6	348	87	7	2	—	—	11	1	401	1	87	
<u>CLASSIC LANG AND LIT</u>	M	14	5	14	5	238	86	4	1	3	1	5	2	278	2	19	
	F	2	5	2	3	39	87	1	1	—	—	1	1	45	1	8	
<u>PHILOSOPHY</u>	M	14	2	22	4	539	89	10	2	10	2	6	—	601	—	65	
	F	—	—	6	9	61	86	1	1	—	—	3	1	71	1	12	
<u>SPEECH AND DRAMATIC ARTS</u>	M	14	2	32	4	657	78	53	6	53	6	29	1	838	1	52	
	F	4	1	7	6	85	71	7	6	11	9	5	1	119	1	25	
<u>FINE ARTS AND MUSIC</u>	M	13	2	10	2	502	87	28	5	8	1	19	1	580	1	55	
	F	3	3	6	5	95	82	1	1	—	—	9	—	114	—	26	
<u>PROFESSIONAL FIELDS</u>	M	23	1	169	8	1,559	70	157	7	174	7	141	1	2,223	1	295	
	F	4	2	31	11	160	70	15	1	8	1	10	1	228	1	62	
<u>BUSINESS ADMINISTRATION</u>	M	6	—	110	9	892	76	88	7	13	1	73	1	1,182	1	111	
	F	—	—	1	1	21	91	—	—	—	—	1	—	23	—	8	
<u>RELIGION AND THEOLOGY</u>	M	9	1	15	2	521	70	33	5	128	17	33	1	739	1	95	
	F	—	—	—	—	32	89	1	3	2	5	1	—	36	—	12	
<u>EDUCATION</u>	M	58	1	439	5	4,076	46	3,307	37	683	7	346	1	8,909	1	893	
	F	19	1	110	5	1,204	60	383	19	201	10	97	1	2,014	1	313	

Source: NRC, Office of Scientific Personnel, Doctorate Records File.

APPENDIXES

APPENDIX A

Number of Doctorates Granted by Institution of Doctorate, by Field, 1920 - 1966 and 1960 - 1966

Institution of Doctorate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY
ADELPHI UNIVERSITY N Y	1920-66	15	7	1			7	2	2				1							
	1960-66	15	7	1			7	2	2											
AKRON UNIVERSITY OH	1920-66	51					51	25	20											
	1960-66	46					46	22	20											
ALABAMA UNIVERSITY OF	1920-66	69	8	27	4	9	28	6	10	6	4	1	34	3	15	6	2	19		
	1960-66	47	8	21	1	8	12	4	5											
ALASKA UNIVERSITY OF	1920-66	20		6						12							1		1	
	1960-66	16								9			2							
ALBANY SUNY AT	1920-66																			
	1960-66																			
ALFRED UNIVERSITY N Y	1920-66	24		1		1	4		2											
	1960-66	21		1		1	4		2											
AMERICAN UNIVERSITY D C	1920-66	34	11	2			16	1	2	4	1		10	2	2	3	2			1
	1960-66	6	6																	
ARIZONA STATE UNIVERSITY	1920-66	34	1	8		3	15	11	2	10		1	4							4
	1960-66	34	1	8		3	15	11	2	10		1	4							4
ARIZONA UNIVERSITY OF	1920-66	218	18	18	3	2	41	11	4	88	53	1	10	116	34	2	30	9	4	37
	1960-66	170	18	18	3	2	33	11	4	48	53			95	27	2	25	9	3	29
ARKANSAS UNIVERSITY OF	1920-66	75		6		1	61	11	13		8	2	2	15	1	1	8	4		
	1960-66	55		6		1	41	8	10		8	2	2	11	1	1	5	4		
AUBURN UNIVERSITY ALA	1920-66	48	30				13	8	3	5		2	67	26	4	7	12	2		16
	1960-66	42	24				13	8	3	5		2	55	22		7	9	2		15
BALL STATE UNIVERSITY IND	1920-66																			
	1960-66																			
BAYLOR UNIVERSITY TEX	1920-66	26					26	7	12					49		4	30	10		1
	1960-66	18					18	6	12					37		3	24	10		
BOSTON COLLEGE	1920-66	12		4		1	8	2	2					2						2
	1960-66	12		4		1	8	2	2											
BOSTON UNIVERSITY	1920-66	152	18	47	2	4	67	26	15	20				153	24	81	32	2		14
	1960-66	64	18	15	2	3	27	11	9	12				61		33	14	1		4
BOWLING GREEN ST UNIV OHIO	1920-66																			
	1960-66																			
BRANDEIS UNIV MASS	1920-66	71	16	37	11	4	18	12	6					41		30	10			1
	1960-66	71	16	37	11	4	18	12	6					40		29	10			
BRIGHAM YOUNG UNIV UTAH	1920-66	24		7		4	15	10	1	2				5		4	1			
	1960-66	24		7		4	15	10	1	2				5		4	1			
BROWN UNIVERSITY R I	1920-66	675	212	164	5	39	244	37	50	5	50		8	165	1	3	46	53	2	60
	1960-66	246	70	67	5	33	61	24	28	4	44		7	54		1	13	30		9
BRYN MAWR COLLEGE PA	1920-66	79	17	10		2	32	16	3	19	1			28			14	5		9
	1960-66	18		3			6	3	6					9			7	2		
BUFFALO, SUNY AT	1920-66	176	18	33	1	5	114	32	16		11	3	1	81		13	41	23		4
	1960-66	93	10	19	1	3	53	24	13		11	3	1	54		8	26	17		3
CALIFORNIA INST OF TECHNOLOGY	1920-66	1714	113	486	50	15	393	53	55	143	579	35	98	180	2		100	56		22
	1960-66	568	40	154	39	14	100	43	37	45	229	19	34	43			31	12		
CALIF, UNIV OF, BERKELEY	1920-66	3238	397	973	146	87	992	105	179	221	655	76	143	1941	177	96	603	496	14	555
	1960-66	1417	208	360	129	67	313	90	134	84	452	58	100	543	53	24	185	144	13	124
CALIF, UNIV OF, DAVIS	1920-66	100	4	2			73	14	13	1	20	1		553	102	54	156	188	4	49
	1960-66	78	4				51	13	12		20	1		355	64	30	101	120		36
CALIF, UNIV OF, LA JOLLA	1920-66	61		23	7	7	3		1	35				11			5	3	1	2
	1960-66	61		23	7	7	3		1	35				10			5	2		
CALIF, UNIV OF, LOS ANGELES	1920-66	1005	166	196	15	10	304	113	38	164	175	11	21	548	46	24	121	120	4	233
	1960-66	507	104	97	14	9	123	77	29	60	123	10	20	295	15	20	89	65	2	104
CALIF, UNIV OF RIVERSIDE	1920-66	48	8	21	2	13	18	6	5	1				26	10		4	5		7
	1960-66	48	8	21	2	13	18	6	5	1				26	10		4	5		7
CALIF, UNIV OF, SAN FRANCISCO	1920-66	34					34							60		17	36	7		
	1960-66	34					34							60		17	36	7		
CALIF, UNIV OF, SANTA BARBARA	1920-66	8	4	2		1	2	1	1					3			3			
	1960-66	8	4	2		1	2	1	1					3			3			
CARNEGIE INST OF TECH PA	1920-66	974	77	186	23	43	224	42	29		487	77	139							
	1960-66	454	34	80	19	29	90	30	19		250	39	84							

Doctorates by Field																	Institution of Doctorate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	
106 66	106 66																124 ADELPHI 84 UNIVERSITY N Y
																	51 AKRON, 46 UNIVERSITY OF
44 40	24 24		11 9	9 7	35 26	27 18	6 6	2 2					58 38	58 38	121 97		378 ALABAMA, 282 UNIVERSITY OF
																	22 ALASKA, 18 UNIVERSITY OF
1				1												13	14 ALBANY 14 SUNY AT
																	24 ALFRED 21 UNIVERSITY N Y
433 200	54 33	25 13	107 37	243 116	73 26	62 26			11				51 14	18 14	1 28	46 28	647 AMERICAN 274 UNIVERSITY O C
18 18	18 18				2 2		2 2									111 96	169 ARIZONA STATE 154 UNIVERSITY
76 62	32 31	40 27		1 3	16 16	5 5	4 4	3 3			4 4					83 71	509 ARIZONA, 414 UNIVERSITY OF
33 29	10 10		23 19		34 25	1 1	30 22	2 2	1 1			33 33	33 33		201 148		391 ARKANSAS, 301 UNIVERSITY OF
					1 1		1 1									86 67	202 AUBURN 165 UNIVERSITY ALA
					3 3	3 3										27 27	30 BALL STATE, 30 UNIVERSITY IND
15 15	15 15				1 1		1 1									26 18	117 BAYLOR 89 UNIVERSITY TEX
15 11	2 2		12 9	1 1	60 5	23 5	25 5	5 5	6 6	1 1			3 3		3 3	56 38	148 BOSTON 66 COLLEGE
288 154	217 117	2 17	20 17	18 5	11 6	427 168	82 42	112 39	24 12	3 1	172 51	74 43	383 139	383 139	492 234		1895 BOSTON 820 UNIVERSITY
					5 5		5 5										5 BOWLING GREEN 5 ST UNIV OHIO
58 55	23 21	3 3	2 2			51 10	12 11	2 2	16 12	8 8		3 3	2 2		2 2		230 BRANDEIS UNIV 219 MASS
5 5	3 3				2 2	1 1						1 1	4 4		4 4	48 48	88 BRIGHAM YOUNG 88 UNIV UTAH
157 77	87 40	1 11	13 18	36 20	249 96	51 21	95 37	58 18	2 2	40 10			20 6		20 6	5	1271 BROWN 479 UNIVERSITY R I
97 27	28 10	21 3	12 4	13 6	223 64	43 11	37 13	63 14	37 7	29 11		13 8	4 4			2	433 BRYN MAWR 118 COLLEGE PA
112 72	95 58	2 2	9 8	6 4		42 32	7 6	12 9	5 5	18 12			8 4	7 3	1 1	262 108	681 BUFFALO, 363 SUNY AT
3 3													1 1				1898 CALIFORNIA INST 615 OF TECHNOLOGY
1378 503	405 163	125 44	79 47	482 150	216 74	1257 397	538 157	248 82	309 110	49 17	90 20	1 1	22 11	88 75	38 38	788 293	8690 CALIF, UNIV OF, 3228 BERKELEY
						6 6		6 6									659 CALIF, UNIV OF, 439 DAVIS
						2 2		1 1			1 1						74 CALIF, UNIV OF, 73 LA JOLLA
559 281	307 125	56 45	34 27	42 25	78 30	435 225	160 64	90 48	107 72	1 1	34 11	8 8	35 21	64 61	64 61	511 289	3122 CALIF, UNIV OF, 1658 LOS ANGELES
						1 1											75 CALIF, UNIV OF, 75 RIVERSIDE
																	94 CALIF, UNIV OF, 94 SAN FRANCISCO
2 2				2 2		6 6	5 5	1 1									19 CALIF, UNIV OF, 19 SANTA BARBARA
45 28	25 11			20 17		8 8						8 8	21 17	21 17			1048 CARNEGIE INST 507 OF TECH PA

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field																				
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL	ECOLOGY, HYDROBIOL	BOT, ZOOL, GEN BIOL
CASE INSTITUTE OF TECH OHIO	1920-66 1960-66	535 347	54 44	111 71	6 6	34 27	122 52	30 24	20 15			248 180	54 33	35 31								
CATHOLIC UNIV OF AMERICA D C	1920-66 1960-66	395 147	68 22	155 64	4 4	26 22	138 37	9 7	42 25	3		31 24	3 3	167 67	1		35 13	40 29	4 2	87 23		
CHICAGO, UNIVERSITY OF	1920-66 1960-66	2079 411	396 88	539 121	40 30	38 32	842 137	113 43	80 49	301 65				1284 199	1 1	162 31	376 76	194 31	5 3	546 98		
CINCINNATI, UNIVERSITY OF	1920-66 1960-66	477 184	57 23	85 29	1 1	15 14	232 89	61 49	22 15	27 13		76 30	31 16	1 1	192 67	1 1	68 35	57 11	31 14	1 1	34 6	
CITY UNIV OF NEW YORK	1920-66 1960-66	2 2	1 1				1 1															
CLAREMONT GRAD & UNIV CAL	1920-66 1960-66													20 15				3 2		17 13		
CLARK UNIV MASS	1920-66 1960-66	104 28		5 1			95 27	11 11	16 11	4				10 5	1		5 3	2 2		2		
CLARKSON COLL OF TECH N Y	1920-66 1960-66	11 11		1 1			7 7	3 3	4 4			3 3	3 3									
CLEMSON UNIVERSITY S C	1920-66 1960-66	27 27		3 3		3 3	20 20	10 10	3 3	1 1		3 3	2 2	17 17	9 9			8 8				
COLORADO SCHOOL OF MINES	1920-66 1960-66	113 40		1 1			3 1	1 1	1 1	60 19		19 19	1 1									
COLORADO STATE COLLEGE	1920-66 1960-66																					
COLORADO STATE UNIVERSITY	1920-66 1960-66	67 59	4 4	5 5		2 2	4 4	2 2	2 2	3 3		51 44		89 85	31 31	10 10	22 22	7 7	3 3	13 13		
COLORADO UNIVERSITY OF	1920-66 1960-66	589 318	56 41	128 99	7 7	23 22	273 93	73 56	22 19	69 39		63 46	19 9	16 15	204 67		33 7	69 20	43 12	4 1	55 27	
COLUMBIA UNIV TEACH COLL N Y	1920-66 1960-66																					
COLUMBIA UNIVERSITY N Y	1920-66 1960-66	2501 696	192 72	468 174	41 29	20 20	1003 148	105 61	70 35	332 89		506 213	143 34	64 46	876 195	3 3	125 30	266 65	145 46	2 1	335 53	
CONNECTICUT, UNIVERSITY OF	1920-66 1960-66	168 101		38 29		11 10	102 44	20 16	11 6			28 28	5 5	6 6	122 73	6 5	52 26	18 16	36 21	1 1	9 4	
CORNELL UNIVERSITY N Y	1920-66 1960-66	2007 596	172 45	468 145	49 40	55 46	728 150	168 71	148 40	101 16		538 240	66 31	76 52	2645 590	937 228	180 29	357 114	671 139	47 22	453 58	
DARTMOUTH COLLEGE N H	1920-66 1960-66	7 7	6 6									1 1	1 1		5 5			4 1		1 1		
DELAWARE UNIVERSITY OF	1920-66 1960-66	381 174	1 1	5 5		4 4	254 103	88 61	35 23			121 65	89 47	2 2	34 32		1 1	12 12	6 5	1 1	14 14	
DENVER UNIVERSITY OF	1920-66 1960-66	10 10		3 3	1 1							7 7		2 2								
DOWNSTATE MED CENTER N Y	1920-66 1960-66													28 28		12 12	13 13	3 3				
DREW UNIVERSITY N J	1920-66 1960-66																					
DROPSIE COLLEGE PA	1920-66 1960-66																					
DUKE UNIVERSITY N CAR	1920-66 1960-66	481 172	77 28	164 69	7 5	15 13	228 63	57 36	26 20			12 12		10 10	426 166	86 33	4 3	97 48	46 22	15 10	178 50	
DUQUESNE UNIVERSITY PA	1920-66 1960-66	21 14					21 14	12 9	6 5					9 9			9 9					
EAST TEXAS STATE UNIV	1920-66 1960-66																					
EMORY UNIVERSITY GA	1920-66 1960-66	60 22					60 22	23 12	5 5					86 55		5 5	24 14	37 27	4 3	15 6		
FLORIDA STATE UNIVERSITY	1920-66 1960-66	165 117	16 16	32 32	6 6		92 51	22 18	16 11	22 18				72 47		3 3	30 22	8 8	4 1	27 16		
FLORIDA UNIVERSITY OF	1920-66 1960-66	481 293	56 23	53 39	1 1	8 8	237 112	55 49	26 19	2 1		133 118	32 22	27 24	327 168	106 69	83 17	37 23	29 25	8 4	64 30	
FORHAM UNIVERSITY N Y	1920-66 1960-66	211 63	2 2	34 12		3 3	171 51	89 27	27 13	4				180 45			76 16	33 16	1 1	70 12		

Doctorates by Field																		Institution of Doctorate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
7	2	1	1	1	1	1							1	1					544 CASF INSTITUTE 356 OF TECH OHIO
448 127	176 57	16 7	138 29	70 9	19 8	776 154	182 38	117 26	106 18	136 16	210 36	24 20	721 138	1 123	688 106	319	2826 739	CATHOLIC UNIV OF AMERICA D C	
2311 591	680 169	175 66	474 100	364 98	423 102	1484 274	469 112	369 58	302 37	145 19	139 28	2 13	38 167	872 38	146 116	521 174	597 174	8627 1816	CHICAGO, UNIVERSITY OF
68 30	39 15	5 2		14 10	8 2	107 34	2 2	38 10	26 10	26 8	15 4		2			129 34		975 349	CINCINNATI, UNIVERSITY OF
2 2	2 2					2 2		2 2										6 6	CITY UNIV OF NEW YORK
110 81	55 33		1	15 13	38 34	57 44	20 13	19 18	5 2		9 9	3 1	24 23	1 22	22 28	40 28		251 191	CLAREMONT GRAD & UNIV CEN CAL
400 96	143 45		4	46 16	17 2	67 67	6 7	1					3			3 2		587 138	CLARK UNIV MASS
																		11 11	CLARKSON COLL OF TECH N Y
1 1				1 1														45 45	CLEMSON UNIVERSITY S C
																		113 40	COLORADO SCHOOL OF MINES
2 2	2 2															754 483		756 485	COLORADO STATE COLLEGE
																		156 144	COLORADO STATE UNIVERSITY
227 144	109 67	4 4	21 14	65 41	28 18	199 98	86 36	64 34	40 23	1 1	4 1	4 3	13 13	13 13		397 157		1629 797	COLORADO, UNIVERSITY OF
3 1	2												2 1		1 1	2240 1292		2245 1294	COLUMBIA UNIV TEACH COLL N Y
2375 751	770 221	217 59	290 76	616 154	349 170	2858 812	851 219	722 261	716 174	101 23	362 77	20 10	77 43	566 165	168 62	184 69	3776 79	12952 2698	COLUMBIA UNIVERSITY N Y
121 72	106 60		6 4	8 7	1 1	37 37		27 27	9 9			1 1	2 1	1 1		236 163		686 447	CONNECTICUT, UNIVERSITY OF
974 253	261 65	59 31	177 50	368 66	94 37	900 209	189 45	278 51	153 42	50 14	92 19	88 19	41 19	146 42	63 18		444 143	7116 1833	CORNELL UNIVERSITY N Y
																		12 9	DARTMOUTH COLLEGE N H
14 14	14 14					6 4	4 2						2 2			2 2		439 230	DELAWARE, UNIVERSITY OF
203 77	187 63		2		14 14	245 120	10 10	70 39				147 63	18 8	2		253 102		713 309	DENVER, UNIVERSITY OF
																		28 28	DOWNSTATE MED CENTER N Y
3		3				6 1		1			5 1		144 50		144 50			153 51	DREW UNIVERSITY N J
6 2		2 1		2		77 16	28 5		34 4	9 5	5 1		47 4		46 3	25 10		155 32	DROPSIE COLLEGE PA
378 150	145 57		45 11	99 47	89 35	384 153	176 71	144 60	19 7	8 15	37 15		140 65		138 65	114 70		1923 776	DUKE UNIVERSITY N CAR
5 5	5 5					9 7		1 1			7 6		1 1		1 1			45 33	DUQUESNE UNIVERSITY PA
																		12 12	EAST TEXAS STATE UNIV
39 32	17 12		9 9		12 11	88 62	33 21	22 12	5 5		22 21		1 1	27 27	1 1	26 26		300 198	EMORY UNIVERSITY GA
173 120	122 86		35 22		8 7	123 86	17 16	35 25	12 12		2 2	13 25	39 40		40 30		265 214	838 614	FLORIDA STATE UNIVERSITY
216 140	113 72		11 5	52 32	24 19	168 97	43 28	77 38	8 6			40 25	26 21	23 20	1 1	271 147		1489 866	FLORIDA, UNIVERSITY OF
358 100	208 73		47 10	46 13	57 4	624 142	137 26	112 53	70 12	42 15	217 36		4		1 1	320 102		1697 452	FORDHAM UNIVERSITY N Y

Appendix A

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Institution of Doctorate	Year of Doctorate	Doctorates by Field																						
		PHYSICAL SCIENCES AND ENGINEERING		MATHEMATICS	PHYSICS AND ASTRONOMY		Elementary Particles		Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES		AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
FORESTRY, C OF, AT SYRACUSE	1920-66 1960-66	71 47		1				60 38	30 19	20 15			10 8	1			89 47	66 31		4 4	8 5	3 3		8 4
GEO PEABODY COL FOR TFACH TENN	1920-66 1960-66	34 5	29 5					4				1				5	2							3
GEO WASHINGTON UNIVERSITY D C	1920-66 1960-66	95 24	24 7	13 2		1	34 9	2 3	4 3	15	9 6	1	1	1	248 64	2 1	39 10	89 26	66 24					52 3
GEORGETOWN UNIVERSITY D C	1920-66 1960-66	172 46	2 2	32 22			138 22	11 8	10 9						152 59		37 15	94 36	18 8					3
GEORGIA INST OF TECHNOLOGY	1920-66 1960-66	254 188	3	32 29	2 2	3 3	65 42	26 29	7 4		154 114	65 37	27 18											
GEORGIA, UNIVERSITY OF	1920-66 1960-66	43 31	28 16	2 2	1 1		13 13	3 3	1 1						91 83	27 27		7 7	14 13	13 12			30 24	
HAHNEMANN MED COLL & HOSP PA	1920-66 1960-66	1					1								30 21		12 8	7 5	11 8					
HARVARD UNIV MASS	1920-66 1960-66	2433 761	402 165	738 262	29 24	71 52	735 171	151 74	108 59	317 93	241 70	1	20 20	1020 257	5 133	133 124	282 93	40 13	13 494				494 52	
HAWAII, UNIVERSITY OF	1920-66 1960-66	26 20					25 19	14 10	4 4	1					68 57	16 16		7 7	17 14	3 1			25 19	
HEBREW UNION COLLEGE CAL	1920-66 1960-66																							
HEBREW UNION COLLEGE N Y	1920-66 1960-66																							
HEBREW UNION COLLEGE OHIO	1920-66 1960-66																							
HOUSTON, UNIVERSITY OF	1920-66 1960-66	23 23					11 11	6 6	4 4		12 12	12			4			3 3	1 1					
HOWARD UNIVERSITY D C	1920-66 1960-66	25 20		7		4	18 13	7 3	8 7						17 17		3	4 4	5 5				5	
IDAH0, UNIVERSITY OF	1920-66 1960-66	24 24	3				12 12	8 8	1 1	4	5 5	5			6 6	1		2 2	1 1	1 1			1	
ILLINOIS INST OF TECHNOLOGY	1920-66 1960-66	471 218	40 25	73 25		14 10	119 49	22 19	24 20		239 119	55 23	37 21	26 17				18 15	7 2				1	
ILLINOIS, UNIVERSITY OF	1920-66 1960-66	3933 1427	346 120	427 153	22 18	116 87	1806 385	326 155	117 54	207 109	1147 660	138 66	274 161	1742 615	502 187	153 123	358 168	399 128	28 28	319				
INDIANA UNIVERSITY	1920-66 1960-66	675 250	86 46	184 63	16 15		336 107	92 49	56 22	69 34				343 151		16 11	82 41	83 52	7 7	155 140				
IOWA STATE UNIV OF SCI & TECH	1920-66 1960-66	1498 654	134 66	159 61	1 1	42 36	727 227	145 72	202 83	18 13	460 287	101 52	71 47	1533 433	595 218	85 20	221 72	447 45	6 6	179 38				
IOWA, UNIVERSITY OF	1920-66 1960-66	1061 273	93 32	132 33	5 5	3 3	524 113	191 60	107 19	111 26	201 69	43 10	27 11	629 174	2 2	106 56	204 55	55 19	1 1	261				
JEFFERSON MED COLL OF PHILA	1920-66 1960-66														63 37		30 15	18 12	15 10					
JEWISH THEOL SEM OF AM N Y	1920-66 1960-66																							
JOHNS HOPKINS UNIVERSITY MD	1920-66 1960-66	1385 348	76 22	320 98	18 16	21 17	500 64	56 27	54 29	152 36	337 128	45 19	88 29	979 181	2 34	311 34	244 83	197 51	9 9	216				
KANSAS, UNIVERSITY OF	1920-66 1960-66	538 269	47 24	63 25	1 1	9 8	318 140	74 55	33 27	51 28	59 52	23 16	21 21	299 115	1 1	9 8	41 16	138 46	1 1	109 45				
KANSAS ST UNIV OF AG & AP SCI	1920-66 1960-66	190 113		19 13		8 8	144 74	27 21	25 19		27 26	6 6	1 1	320 178	90 65	29 29	23 20	150 152	1 1	27 11				
KENT STATE UNIV OHIO	1920-66 1960-66	3 3					3 3		1 1						2 2				1 1	1 1				
KENTUCKY, UNIVERSITY OF	1920-66 1960-66	126 44	39 7	27 15	3 3	3 3	59 19	15 15	11 11		6 1			57 48	30 30		8 8	17 8					2	
LAWRENCE UNIV WISC	1920-66 1960-66	243 75		17 3			196 56	52 35	23 14		30 16	25 16		1 1				1 1						
LEHIGH UNIVERSITY PA	1920-66 1960-66	388 195	22 14	61 32		10 9	104 36	13 9	18 15	18 11	183 102	27 16	6 5	26 12		1	2 2	20 7	3 3					
LOMA LINDA UNIVERSITY CAL	1920-66 1960-66	1 1					1 1								2 2			1 1	2 2					

Doctorates by Field																	Institution of Doctorate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
4													1					165	FORESTRY, C OF,
3				4									1					98	AT SYRACUSE
110	94	4	7	1	117	35	53	10	4			15	3	1	735	1004	GEO PEABODY COL	299	FOR TEACH TENN
37	37				25	7	11	1				6			232				
121	60	1	36	22	49	23	14	8		3			49	22	154	716	GEO WASHINGTON	231	UNIVERSITY D C
43	24		10	9	13	8	3	2					28	18	54				
188		4	48	132	206	146	5	23	1	31			23		1	742	GEORGETOWN	267	UNIVERSITY D C
77			25	48	83	51		23		9			2						
																254	GEORGIA INST	188	OF TECHNOLOGY
27	23		1	1	40	29	10	1								137	338	GEORGIA	
27	23		1	1	36	27	8	1								106	283	UNIVERSITY OF	
																	31	HAHNEMANN MED	
																	21	COLL & HOSP PA	
2403	383	240	215	954	575	3209	1016	635	527	134	364	2	226	792	320	179	776	10633	HARVARD
635	134	88	54	218	127	856	283	209	163	65	68		63	278	146	94	270	3057	UNIV MASS
9	8			1		4	3		1									107	HAWAII
	8																	90	UNIVERSITY OF
1		1											5		5			6	HEBREW UNION
1																		6	COLLEGE CAL
						1							3		3			4	HEBREW UNION
						1							1		1			2	COLLEGE N Y
2		1		1	22	10		5	5	1		1	51		50	1	76	HEBREW UNION	
					12	7		1	4				22		21		35	COLLEGE OHIO	
142	138		4													191	360	HOUSTON	
91	87															92	210	UNIVERSITY OF	
						1	1											43	HOWARD
																		38	UNIVERSITY D C
2				2	2	2										17	51	IDAHO	
																	51	UNIVERSITY OF	
53	52		1										4	3				554	ILLINOIS INST
27	27												1	1				263	OF TECHNOLOGY
970	302	1	53	422	147	1048	231	311	228	67	33	126	45	249	180	638	8580	ILLINOIS	
352	135		28	118	45	360	55	117	60	7	15	65	36	132	93	338	3224	UNIVERSITY OF	
545	223	29	43	131	102	726	171	151	175	4	27	44	145	230	221	1	1462	3981	INDIANA
254	92	13	20	54	68	432	76	78	124	1	17	39	94	147	141		753	1987	UNIVERSITY
273	1		33	238										26	3		78	3408	IOWA STATE UNIV
118			15	101										8			27	1240	OF SCI & TECH
958	583		73	136	137	1200	203	288	114	18	43	286	245	206	116	43	838	4892	IOWA
202	120		23	25	17	338	45	65	20	2	12	98	96	70	20	24	289	1346	UNIVERSITY OF
																		63	JEFFERSON MED
																		37	COLL OF PHILA
						11	3		2	5		1	85		85	4	100	JEWISH THEOL	
						11							14		14		26	SEM OF AM N Y	
492	143	69	3	116	140	669	148	161	208	86	48	2	15	12		6	103	3640	JOHNS HOPKINS
103	34	1		32	27	157	40	32	30	22	23		9	2		1	16	807	UNIVERSITY MD
203	149		9	22	17	123	30	41	32			18	2	1			297	1461	KANSAS
74	52		1	6	10	74	13	24	18			18	1				152	684	UNIVERSITY OF
17	8			9		1		1						5				533	KANSAS ST UNIV
17	8																	314	OF AG & AP SCI
						3		3											
																		24	KENT STATE
217	126		20	45	26	82	45	29	8					1		161	644	KENTUCKY	
94	44		10	25	15	30	18	11	1							61	277	UNIVERSITY OF	
																		245	LAWRENCE
																		76	UNIV WISC
2	2					16	7	8											
2	2					9	4	4										442	LEHIGH
																		228	UNIVERSITY PA
																		4	LOMA LINDA
																		3	UNIVERSITY CAL

Appendix A

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Institution of Doctorate	Year of Doctorate	Doctorates by Field																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		PHYSICAL SCIENCES AND ENGINEERING		MATHEMATICS		PHYSICS AND ASTRONOMY		Elementary Particles		Solid State		CHEMISTRY		Organic		Physical		EARTH SCIENCES		ENGINEERING		Chemical		Electrical		BIOLOGICAL SCIENCES		AGRICULTURE AND FORESTRY		HEALTH SCIENCES		BIOCHEM, BIOPHYS.		PHYSIOL, BIOSTATIST.		ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL		ECOLOGY, HYDROBIOLOGY		BOT, ZOOL, GEN BIOL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
LA STATE UNIV & AG & MECH COLL	1920-66 1960-66	327 161	35 25	54 32	4 4	11 9	136 70	12 43	29 39	61 27	41 8	35 8	305 39	151 97	6 5	28 17	45 2			75 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

* Includes doctorates granted by the University of Missouri at Rolla since July 1964.

Doctorates by Field																	Institution of Doctorate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
210 114 3 3	77 56 3 3	54 15 30	52 30	1	202 86	32 14	58 21	22			87 30	61 42 1	60 42	133 62 1	1238 630	122 93	8 8	LA STATE UNIV & AG & MECH COLL LOUISVILLE, UNIVERSITY OF LOWELL TECHNOL INSTITUTE MASS	
106 64 3 3	101 59 3 3	5			65 27 3	28 9 3	27 18	2	3	5		2		2	94 59	367 207	27 27	LOYOLA UNIVERSITY ILL MAINE, UNIVERSITY OF	
7	1	3	1	1	33 10	6	6	4	1	16 10					14 1			96 34	MARQUETTE UNIV WISC
204 102	94 39	24 16	27 17	36 24	118 70	41 27	47 25	27 15		3		5 2	3		264 146	1953 863	12 7	MARYLAND, UNIVERSITY OF MASS COLLEGE OF PHARMACY	
241 152	27 8		183 113	23 23	16 15			15 14		1 1		38 21	33 17					4814 1911	MASS INSTITUTE OF TECHNOLOGY
90 74	75 63	3 2	8 5	4 4	2 2	1 1		1 1				1						388 183	MASSACHUSETTS, UNIVERSITY OF
																		23 10	MEDICAL COLL OF SOUTH CAROLINA
																		38 25	MEDICAL COLLEGE OF VIRGINIA
19 19	19 19																19 93	93 93	MIAMI, UNIVERSITY OF
527 355	240 158	5 5	100 52	138 97	24 23	165 132	20 15	52 28	9		9 8	47 47	21 18	95 93	69 69	1 1	621 438	3048 1833	MICHIGAN STATE UNIVERSITY
1275 496	651 277	59 29	120 44	182 62	154 56	1278 431	250 63	355 115	289 118	52 9	88 32	154 53	82 39	217 110	106 51	2 2	771 290	7476 2551	MICHIGAN, UNIVERSITY OF
						35 11		35 11										35 11	MIDDLEBURY COLLEGE VT
1257 409	615 180	7 6	126 45	303 92	153 56	683 277	214 59	207 91	97 32	5	26 15	102 55	26 20	81 55	52 38		528 233	6334 2129	MINNESOTA, UNIVERSITY OF
6 6			6 6			14 14		14 14										72 64	MISSISSIPPI ST UNIVERSITY
11 11	8 8			3 3	4 4	1 1	3 3						1 1	1 1		65 37		145 115	MISSISSIPPI, UNIVERSITY OF
194 115	68 45	50 25	52 34	21 11	196 91	82 36	50 18	22 13	3		38 23		51 18	9 5		638 237	2035 835	MISSOURI, UNIV OF, COLUMBIA*	
2 2		1 1		1 1	6 6	1 1						5 5	1 1			20 16		31 27	MISSOURI, UNIV OF, KANS CITY
13 13			13 13															113 98	MONTANA STATE UNIVERSITY
																		23 22	MONTANA, UNIVERSITY OF
280 87	149 40	2 11	31 16	21 9	147 55	73 19	34 20	9 5	2	29 11				22 16	22 16		473 268	1514 644	NEBRASKA, UNIVERSITY OF
																		5 5	NEVADA, UNIVERSITY OF
																		105 90	NEW HAMPSHIRE, UNIVERSITY OF
																		3 3	N J COLL OF MED & DENT
																		4 3	NEW MEXICO INST OF MIN & TECH
																		58 58	NEW MEXICO STATE UNIV
18 7	3 3	15 4			109 55	55 31	34 19	19 5									39 39	317 205	NEW MEXICO, UNIVERSITY OF

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	ANAT, CYTOL, GENET.	ENTOMOL, MICROBIOL, EMBRYOL	
NEW SCHOOL FOR SOCIAL RES N Y	1920-66 1960-66																			
NEW YORK LAW SCHOOL	1920-66 1960-66																			
NEW YORK UNIVERSITY	1920-66 1960-66	1324 475	299 140	264 80	5 5	24 16	483 97	78 53	56 33	68 27	210 131	35 22	30 26	438 134	2 9	27 61	154 41	102 41	153 23	
NEWARK COLLEGE OF ENGINEERING	1920-66 1960-66	10 10									10 10	7 7	3 3							
NORTH CAROLINA COLL AT DURHAM	1920-66 1960-66																			
N C STATE UNIV AT RALEIGH	1920-66 1960-66	205 157	57 37	18 18		1 1	6 6			1 1	123 95	21 13	14 10	344 219	199 115	4 1	40 33	80 55	7 5	14 10
NORTH CAROLINA, UNIVERSITY OF	1920-66 1960-66	592 208	144 59	96 43	4 4	23 21	312 90	68 38	28 16	33 10	7 6			253 113	13 35	69 37	62 17	22 1	86 23	
NORTH CAR, U OF GREENSBORO	1920-66 1960-66																			
NORTH DAKOTA STATE UNIV	1920-66 1960-66	9 9					9 9	2 2	2 2					15 15	8 8	1 1	4 4	1 1	1 1	
NORTH DAKOTA, UNIVERSITY OF	1920-66 1960-66	10 7					6 5	2 2	2 2	2 2	2 2			22 17		1 1	9 6	11 10	1 1	
NORTH TEXAS STATE UNIV	1920-66 1960-66	1 1		1 1																
NORTHEASTERN UNIV MASS	1920-66 1960-66	6 6		2 2	2 2		2 2	2 2			2 2		2 2							
NORTHERN ILL UNIVERSITY	1920-66 1960-66																			
NORTHWESTERN UNIVERSITY ILL	1920-66 1960-66	1123 452	47 19	109 39	7 6	23 19	528 118	88 53	50 35	52 23	387 253	90 60	70 33	381 98		75 20	137 41	86 26	4 3	79 8
NOTRE DAME, UNIV OF, IND	1920-66 1960-66	633 241	67 38	116 51	2 2	20 18	394 120	106 46	57 36		56 32	7 7	3 3	76 34	1 1	1 1	17 10	22 15	2 2	33 5
OCCIDENTAL COLLEGE CAL	1920-66 1960-66																			
OHIO STATE UNIVERSITY	1920-66 1960-66	2215 663	119 41	329 96		20 15	1105 225	175 110	80 34	89 45	573 256	134 39	93 57	1434 391	401 122	106 42	199 76	403 97	6 5	319 49
OHIO UNIVERSITY	1920-66 1960-66	29 28		10 10	2 2	2 2	19 18	9 8	3 3											
OKLAHOMA ST U OF AG & AP SCI	1920-66 1960-66	282 221	48 41	15 15		10 10	69 32	23 18	15 10		150 133	21 15	26 20	244 167	86 67	19 13	23 20	40 29	5 5	71 43
OKLAHOMA UNIVERSITY OF	1920-66 1960-66	269 159	18 5	50 16	1 1	4 4	74 34	17 13	16 13	44 28	83 76	45 38	9 9	183 110	1 1	27 15	51 31	22 22	5 5	77 41
OREGON STATE UNIV OREG	1920-66 1960-66	328 181	46 31	38 18		3 1	185 88	45 18	45 29	16 16	43 28	19 14	6 2	522 281	197 115	29 6	73 36	118 71	16 12	89 41
OREGON, UNIVERSITY OF	1920-66 1960-66	149 84	60 37	23 12		7 6	60 31	14 12	19 16	6 4				93 55		4 3	61 36	15 6	4 2	8 8
PACIFIC, UNIV OF THE, CAL	1920-66 1960-66	18 18					18 18	7 7	1 1											
PEABODY INST OF BALTIMORE MD	1920-66 1960-66																			
PENNSYLVANIA STATE UNIV	1920-66 1960-66	1379 559	34 28	216 109	8 8	31 29	644 172	109 74	77 60	165 106	320 144	58 28	22 16	500 193	218 75	15 15	126 53	88 44		53 21
PENNSYLVANIA, UNIVERSITY OF	1920-66 1960-66	1044 437	117 34	214 77	17 16	28 23	466 162	113 77	78 46	3 3	244 164	37 20	101 71	676 155	3 21	168 59	143 46	178 1	1 1	183 28
PHILA COLLEGE OF PHARM & SCI	1920-66 1960-66	10 4					10 4							54 13		29 11	19 1		8 1	
PITTSBURGH, UNIVERSITY OF	1920-66 1960-66	819 303	123 51	131 53	1 1	30 19	378 86	85 33	59 24	13 9	174 104	46 25	33 26	360 140		61 45	105 48	70 32	5 4	119 11
POLYTECH INST OF BROOKLYN	1920-66 1960-66	912 368	8 8	52 31		18 12	503 166	105 81	83 64		349 163	92 41	100 53	1 1			1 1			
PORTLAND, UNIV OF, OREG	1920-66 1960-66																			

Doctorates by Field																	Institution of Doctorate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
202 82	58 28	54 20	60 29	26 5	18 8				18 8							1 1	221 91	NEW SCHOOL FOR SOCIAL RES N Y	
													28 24				28 24	NEW YORK LAW SCHOOL	
1411 623	804 335	18 8	120 47	169 72	237 140	866 367	147 76	274 108	191 78	33 6	45 12	40 20	128 65	535 134	267 82	34 17	2663 598	7237 2331	NEW YORK UNIVERSITY
																	10 10	NEWARK COLLEGE OF ENGINEERING	
																4 1	4 1	NORTH CAROLINA COLL AT DURHAM	
																		625 425	N C STATE UNIV AT RALEIGH
497 198	138 72	6 4	147 36	111 31	75 44	733 240	200 63	233 67	190 64	53 17	14 6		38 23	21 18	20 17		216 100	2310 877	NORTH CAROLINA, UNIVERSITY OF
														4 4				4 24	NORTH CAR, U OF GREENSBORO NORTH DAKOTA STATE UNIV
43 17	37 17		3		2	5 1	4 1	1						1 1			137 74	218 117	NORTH DAKOTA, UNIVERSITY OF
1	1					20 13						20 13					150 127	172 140	NORTH TEXAS STATE UNIV
																		6 6	NORTHEASTERN UNIV MASS
																	11 11	11 11	NORTHERN ILL UNIVERSITY
632 230	246 90	50 18	52 22	103 27	92 40	911 312	132 37	210 59	85 24	12 3	37 18	354 122	72 34	161 62	78 28	65 20	412 124	3621 1278	NORTHWESTERN UNIVERSITY ILL
62 31			21 16	13 11	28 102	179 102	37 20	66 46		2 35				1 1			32 20	983 428	NOTRE DAME, UNIV OF, IND
						13 12		3 3	5 5									13 12	OCCIDENTAL COLLEGE CAL
1225 385	647 176	16 3	168 56	282 118	59 16	779 277	167 47	165 43	112 31	25 9	35 8	198 105	74 34	244 129	190 89		1044 368	6941 2213	OHIO STATE UNIVERSITY
1 1	1 1					23 23		2 2				20 20					25 25	78 77	OHIO UNIVERSITY
63 54	20 16			43 38													211 130	800 572	OKLAHOMA ST U OF AG & AP SCI
127 82	83 47			23 15	20 19	151 94	71 36	45 25	4 4			31 29		1 1	1 1		363 187	1094 633	OKLAHOMA, UNIVERSITY OF
26 21			2 1	24 20										6 5			118 41	1000 529	OREGON STATE UNIV OREG
159 118	56 42	19 17	28 21	32 21	23 16	80 56	38 26	21 15	13 7			8 8		13 13	13 13		455 258	949 584	OREGON, UNIVERSITY OF
7 7	3 3					16 5	3 1	3 3	2 2	1 1	5 1		1 1				22 18	63 41	PACIFIC, UNIV OF THE, CAL
						4 4							4 4					4 4	PEARBODY INST OF BALTIMORE MD
384 147	257 80		46 18	53 34	16 9	133 62	16 11	58 22	15 16		9 9	32 14	3 3	49 28	3 3		780 384	3225 1373	PENNSYLVANIA STATE UNIV
1003 328	212 61	76 31	118 25	358 106	149 44	1224 355	334 86	427 137	264 68	76 28	82 21	12 10	21 10	22 9	10 6	6 6	359 91	4328 1375	PFNNSYLVANIA, UNIVERSITY OF
																		66 17	PHILA COLLEGE OF PHARM & SCI
464 135	234 64	4 4	72 11	110 32	32 15	361 123	71 15	116 45	64 14	39 5	22 8	43 33	6 3	40 26	23 15	16 10	850 185	2894 912	PITTSBURGH, UNIVERSITY OF
																		913 368	POLYTECH INST OF BROOKLYN
46 34	46 34																26 24	72 58	PORTLAND, UNIV OF, OREG

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Institution of Doctorate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
PRINCETON UNIVERSITY	1920-66	1721	328	391	46	10	496	56	107	233	273	99	42	148	1	62	14	2	69		
	1960-66	633	100	151	40	8	125	39	69	62	195	73	31	38		20	7	2	9		
PROVIDENCE COLLEGE R I	1920-66	1					1	1													
	1960-66	1					1	1													
PURDUE UNIVERSITY	1920-66	2197	123	193	14	45	990	175	69	3	888	96	168	1127	329	233	232	184	17	132	
	1960-66	942	62	82	14	40	295	121	48	3	500	40	113	546	165	91	131	113	15	31	
RENSSELAER POLY INST N Y	1920-66	617	26	92	3	21	185	29	57	9	305	59	30								
	1960-66	356	19	63	3	19	81	22	43	9	184	33	20								
RHODE ISLAND UNIVERSITY OF	1920-66	40					23	7	2	10	7	4	2	31	5	11	5	4		6	
	1960-66	40					23	7	2	10	7	4	2	31	5	11	5	4		6	
RICE UNIVERSITY TEX	1920-66	437	62	153	2	28	98	30	14	49	75	47	10	55	2	20	15		18		
	1960-66	229	17	62	2	22	35	22	11	46	69	41	10	21		13	5		3		
ROCHESTER UNIVERSITY OF	1920-66	548	25	212	32	17	274	73	35	10	27	14	4	396	54	233	59		50		
	1960-66	208	16	91	29	14	72	45	23	5	24	11	4	107	13	50	25		19		
ROCKEFELLER UNIVERSITY N Y	1920-66	4	1	1			2	1						88	4	52	23	1	5		
	1960-66	4	1	1			2	1						83		50	23				
RUTGERS, THE STATE U, N J	1920-66	459	35	63	3	35	270	67	45	18	73		1	910	309	24	175	255	13	134	
	1960-66	234	30	33	3	26	131	54	32	7	33		1	370	110	5	72	120	9	54	
ST. BONAVENTURE UNIVERSITY N Y	1920-66													11	1		1	5		4	
	1960-66													8			4			3	
ST. JOHNS UNIVERSITY N Y	1920-66	7		2	2		5	3	1					35	1	7	16		11		
	1960-66	7		2	2		5	3	1					32		7	14		11		
ST. LOUIS UNIVERSITY	1920-66	243	42	71	3	14	86	20	10	44				169	13	92	38		26		
	1960-66	76	17	23	3	10	18	9	3	18				56	10	37	6		3		
ST. MARYS COLLEGE IND	1920-66																				
	1960-66																				
ST. MARYS SEM & UNIVERSITY MD	1920-66																				
	1960-66																				
ST. STEPHENS COLLEGE MASS	1920-66																				
	1960-66																				
SMITH COLLEGE MASS	1920-66	2		1			1	1						5			3		2		
	1960-66	2		1			1	1						5			3		2		
SOUTH CAROLINA UNIVERSITY OF	1920-66	46	6	7	3		31	14	10		2	2		7	2		1		4		
	1960-66	40	6	7	3		25	12	10		2	2		5	1		1		3		
SOUTH DAKOTA STATE UNIV	1920-66													27	25		1		1		
	1960-66													26	24		1		1		
SOUTH DAKOTA UNIVERSITY OF	1920-66													7		2	3	1	1		
	1960-66													7		2	3	1	1		
SOUTHERN CALIF. UNIVERSITY OF	1920-66	261	24	40	1		116	13	20	32	49	7	18	242	19	113	59	4	47		
	1960-66	116	12	15	1		32	7	12	18	39	3	15	77	8	35	22	4	10		
SOUTHERN ILLINOIS UNIV	1920-66	2					2	1						16		3	7		6		
	1960-66	2					2	1						16		3	7		6		
SOUTHERN METHOD UNIVERSITY TEX	1920-66																				
	1960-66																				
SOUTHERN MISS. UNIVERSITY OF	1920-66																				
	1960-66																				
SPRINGFIELD COLLEGE MASS	1920-66																				
	1960-66																				
STANFORD UNIVERSITY CAL	1920-66	1935	198	242	37	29	383	76	26	219	893	13	298	447	3	13	109	112	9	201	
	1960-66	1003	129	122	34	27	76	54	16	100	576	13	167	120		6	47	31	5	31	
STEVENS INST OF TECHNOLOGY N J	1920-66	95	8	29	5	4	26	11	13		32	12	2								
	1960-66	91	8	28	5	4	25	11	12		30	12	2								
STONY BROOK, SUNY AT	1920-66	1					1		1												
	1960-66	1					1		1												
SYRACUSE UNIVERSITY	1920-66	401	51	102	8	32	122	16	20	17	109	24	55	161	22	2	22	56	2	57	
	1960-66	177	20	53	8	23	28	13	13	1	75	8	42	48			6	31	1	10	
TEMPLE UNIVERSITY PA	1920-66	134		46	1	21	88	36	21					46		26	13	7			
	1960-66	70		27	1	15	43	23	17					31		17	9	5			
TENNESSEE UNIVERSITY OF	1920-66	293	32	76	4	10	133	23	32	4	48	27	4	179	5	22	58	42	6	46	
	1960-66	149	18	42	4	10	55	14	23	3	31	14	4	106	5	13	32	21	4	31	

Doctorates by Field																	Institution of Doctorate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
587 229	158 65	13 3	27 22	167 57	208 80	851 261	153 68	245 59	186 41	110 27	82 28		73 37	39 33		31 29		3346 1194	PRINCETON UNIVERSITY
																		1 1	PROVIDENCE COLLEGE R I
747 335	533 212		29 24	183 97		90 52					90 52		31 20	7 7		109 84	4301 1979	PURDUE UNIVERSITY	
													3 3	3 3			620 359	RENSSELAER POLY INST N Y	
																	71 71	RHODE ISLAND, UNIVERSITY OF	
	9 8	1 1		7 7	1 1	53 39	15 10	21 15	14 11		3 3						554 297	RICE UNIVERSITY TEX	
163 71	153 61		1 1	9 9		331 142	51 30	37 34	2 2		7 7	234 71				20 20	1458 548	ROCHESTER, UNIVERSITY OF	
																	92 87	ROCKEFELLER UNIVERSITY N Y	
81 60	35 30			26 19	20 11	51 36	17 15	26 13	8 8				18 18			258 144	1777 862	RUTGERS, THE STATE U, N J	
1			1			18 5					18 5						30 13	ST. BONAVENTURE UNIVERSITY N Y	
	39 33	26 25	9 4		4 4	114 44	45 21	64 19	1 1		4 4		2 2			49 36	246 192	ST. JOHNS UNIVERSITY N Y	
124 51	17 16		36 20	47 2	18 7	271 113	101 44	41 13	9 7	39 13	81 36		22 10	21 10	1 1	91 54	920 360	ST. LOUIS UNIVERSITY	
													65 17		65 17		65 17	ST. MARYS COLLEGE IND	
						2	1		1				9		9		11	ST. MARYS SEM & UNIVERSITY MO	
						1 1					1 1						1 1	ST. STEPHENS COLLEGE MASS	
1	1					4		1	2		1						12	SMITH COLLEGE MASS	
1 1	1 1					34 16	20 10	14 6								27 13	115 75	SOUTH CAROLINA, UNIVERSITY OF	
5 4			1 1	4 3													32 30	SOUTH DAKOTA STATE UNIV	
																	30 29	37 36	SOUTH DAKOTA, UNIVERSITY OF
613 248	245 93	9	112 34	107 51	118 50	648 259	132 38	92 48	84 37	8 2	53 19	163 51	109 61	157 58	37 34	115 21	1088 481	3009 1239	SOUTHERN CALIF., UNIVERSITY OF
43 43	25 25	1 1	1 1	1 1	15 15	25 24					1 1	24 23		5 5	1 1	59 59	150 149	SOUTHERN ILLINOIS UNIV	
9 9				9 9													9 9	SOUTHERN METHOD UNIVERSITY TEX	
5 5	5 5					1 1					1 1		1 1			35 35	42 42	SOUTHERN MISS, UNIVERSITY OF	
																48 29	48 29	SPRINGFIELD COLLEGE MASS	
637 245	292 109	19 16	51 21	147 58	114 31	778 280	231 58	224 78	139 41	12 5	26 21	111 60	24 12	104 67	86 55	1227 254	5128 2009	STANFORD UNIVERSITY CAL	
																		95 91	STEVENS INST OF TECHNOLOGY N J
																		1 1	STONY BROOK, SUNY AT
498 214	160 55	9 5	27 11	77 30	138 65	177 87	55 37	53 21	26 13	1 1	14 2	12 3	5 2	19 14	4 1	2 1	303 140	1559 680	SYRACUSE UNIVERSITY
90 51	89 51				1 3	6 3		6 3						165 28	164 28	431 186	872 369	TEMPLE UNIVERSITY PA	
127 66	106 48		8 8	4 4	2 1	34 19	3 3	30 15		1 1			8 7			223 143	864 490	TENNESSEE UNIVERSITY OF	

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
TEXAS A & M UNIVERSITY	1920-66 1960-66	320 226	3 3	45 32	1 1	6 6	66 39	19 15	14 11	59 44	147 108	25 19	32 17	384 199	152 74	21 6	102 62	79 36	6 6	24 15	
TEXAS CHRISTIAN UNIVERSITY	1920-66 1960-66	10 10	3 3	7 7		3 3															
TEXAS TECHNOL COLLEGE	1920-66 1960-66	19 15					16 13	5 4	3 2	1 2			1 1	2 2			2 2				
TEXAS UNIVERSITY OF	1920-66 1960-66	1229 559	136 71	203 80		22 22	489 156	135 75	76 34	79 47	222 205	86 46	61 39	472 223		15 5	99 51	139 67	6 5	213 95	
TEXAS WOMANS UNIVERSITY	1920-66 1960-66	9					1				8			11 2		10 1	1 1				
TOLEDO, UNIVERSITY OF	1920-66 1960-66																				
TUFTS UNIV MASS	1920-66 1960-66	15 15		8 8	4 4	4 4	7 7	3 3	3 3					49 25		14 3	33 20	1 1		1 1	
TULANE UNIV OF LOUISIANA	1920-66 1960-66	156 77	49 26	7 7		6 6	89 33	11 7	11 10	1 1	10 10	8 8		203 120		43 31	59 36	60 30		41 23	
TULSA, UNIVERSITY OF	1920-66 1960-66																				
UNION COLLEGE & UNIVERSITY N Y	1920-66 1960-66	7								7		7	5 3		2 1	1 1	2 2				
U S NAVAL POST-GRAD SCH CAL	1920-66 1960-66	16 15		3 3		2 2					13 12		9 8								
UPSTATE MEDICAL CENTER N Y	1920-66 1960-66													15		6	6	2		1	
UTAH STATE UNIV OF AG & AP SCI	1920-66 1960-66	35 28		4 4			5 5	1 1	1 1	1 1	25 18			117 91	74 59	4 4	12 11	11 8	7 4	9 9	
UTAH, UNIVERSITY OF	1920-66 1960-66	474 264	29 25	65 35	10 7	15 15	154 69	32 18	51 36	65 40	161 95	29 23	28 19	163 162		27 16	27 17	64 40	3 3	30 16	
VANDERBILT UNIV TENN	1920-66 1960-66	226 110	13 7	75 42	9 8	5 5	124 47	29 21	21 14		14 14	7 7	4 4	115 45		12 7	45 22	26 8	1 1	31 8	
VERMONT, U OF & ST AG COLL	1920-66 1960-66	9					9 9	6 6	3 3					15 14		2 2	10 9	1 1		2 2	
VIRGINIA POLY-TECHNIC INST	1920-66 1960-66	223 148	29 21	14 14	1 1	5 5	39 21	12 12	3 3	13 10	28 22	44 18	1 1	93 73	39 29	1 1	30 24	10 10	2 2	13 13	
VIRGINIA, UNIVERSITY OF	1920-66 1960-66	538 161	55 22	215 115	1 1	31 31	245 46	37 20	26 13	1 1	22 22	6 6	1 1	125 25	1 1	2 2	10 10	18 18		93 93	
WAKE FOREST COLLEGE N C	1920-66 1960-66													3		1		2			
WASHINGTON STATE UNIV	1920-66 1960-66	144 77	11 11	26 18		7 6	26 42	23 17	16 10	10 5	1 1			352 145	181 64	24 14	14 19	63 33	3 1	67 24	
WASHINGTON UNIVERSITY MO	1920-66 1960-66	454 197	34 17	144 48	7 5	15 14	123 38	19 13	15 12	32 19	121 75	36 15	27 13	277 50	6 4	15 11	47 11	62 8		147 27	
WASHINGTON, UNIV OF, WASH	1920-66 1960-66	909 435	87 45	150 73	25 24	10 9	420 154	74 49	68 46	103 55	149 108	78 38	28 27	444 191	75 34	96 27	106 66	71 31	7 7	89 26	
WAYNE STATE UNIV MICH	1920-66 1960-66	246 131	20 17	19 18	5 5	9 8	185 44	92 44	31 12		12 12	6 6		84 51		1 1	65 35	16 14		2 2	
WEST VIRGINIA UNIVERSITY	1920-66 1960-66	114 39	3 3	10 9		3 3	58 12	7 5	8 7	5 2	38 16	23 5		97 52	38 12	10 10	22 16	12 10		15 4	
WESTERN RESERVE UNIV OHIO	1920-66 1960-66	257 68	10 10	9 9		2 2	237 48	24 19	35 25	1 1				193 66		18 9	94 26	55 24		26 7	
WESTMINSTER THEOL SEM PA	1920-66 1960-66																				
WICHITA STATE UNIVERSITY	1920-66 1960-66																				
WISCONSIN, UNIVERSITY OF	1920-66 1960-66	2730 877	244 107	394 132	33 32	22 17	1262 278	199 90	167 87	274 110	556 250	159 62	120 51	3349 921	931 289	314 111	753 194	678 184	15 13	658 130	
WOMANS MED COLLEGE OF PA	1920-66 1960-66													3		2		1			
WOODSTOCK COLLEGE MO	1920-66 1960-66																				

Appendix A

continued

Institution of Doctorate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL, EMBRYOL	BOT, ZOOL, GEN BIOL
WORCESTER POLYTECH INST	1920-66	20	6	1	0	2	3			10	4	2									
	1960-66	18	2							10	4	2									
WYOMING, UNIVERSITY OF	1920-66	47												62	27	1	2		4	4	
	1960-66	30					21	2	7	17	1			28	15				7	4	
YALE UNIVERSITY CONN	1920-66	1800	150	467	25	11	667	134	115	179	357	92	81	920	118	139	205	175	11	272	
	1960-66	494	58	147	21	10	130	54	54	42	117	27	27	201	32	10	69	35	3	43	
YESHIVA UNIVERSITY N Y	1920-66	18	15	3	1									18			4	5	3	6	
	1960-66	18	15	3	1									18			4	5	3	6	
UNKNOWN AND DEFUNCT	1920-66	1					1		1					4		1	3				
	1960-66	1					1		1					2			2				
TOTAL	1920-66	75404	7747	13948	1003	7033	1906	384	431	3534	1858	3665	3409	43209	3553	4662	10071	9339	4601	10174	
	1960-66	30644	3535	5615	874	1400	9022	374	7256	12155	10317	1857	2094	15475	3451	1593	4117	3522	313	2479	

Doctorates by Field																							
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOLOGY	SOCIOLOGY	ECONOMICS AND ECONOMETRICS	POLITICAL SCIENCE, INTERNATIONAL RELATIONS	ARTS AND HUMANITIES	HISTORY	ENGINEERING AND APPLIED LANGUAGES AND LITERATURE	MODERN FOREIGN LANGUAGES AND LITERATURE	CLASSIC LANGUAGES AND LITERATURE	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Doctorate				
5	5																						
943	293	100	141	188	211	1,750	356	678	390	149	234	39	97	664	423	368	664	205	20 WORCESTER	18 POLYTECH INST			
304	83	24	33	81	80	597	104	151	132	37	106	20	47	176	126			122	299 WYOMING	184 UNIVERSITY OF			
113	110		1	1		35	22	1	4	6	2		37		37	36	275	664	YALE UNIVERSITY	1772 CONN			
83	82					16	10						11		11	43	191	1772	YFSHIVA	UNIVERSITY N Y			
2	2					2		1	1				124	122	3	136	23	136	UNKNOWN AND	DEFUNCT			
2	2					2		1	1				13	11	3	23		136	UNKNOWN AND	DEFUNCT			
38268	15603	5524	210	9310	5642	37003	9934	9971	6548	1688	3256	2833	2236	9081	30123	7723	7866	241231	TOTAL				
14871	6443	6101	422	3342	2218	12973	3273	3578	2151	443	1032	1324	1081	3544	16121	1571	5356	92863					

APPENDIX B

Number of Doctorates by Institution of Baccalaureate, by Field, 1920 - 1966 and 1960 - 1966

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIostatist	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL
ARILENE CHRIS-TIAN COLL TEX	1920-66 1960-66	10 7	2 2	2 1			5 3				1 1			16 11	2 2	1 1	11 7	1 1
ADAMS STATE COLLEGE COLO	1920-66 1960-66	4 3					4 3	1 1	1 1					1 1				1 1
ADELPHI UNIVERSITY N Y	1920-66 1960-66	13 2	1 1				12 2	2 1	2 1					13 8		1 1	5 2	3 3
ADRIAN COLLEGE MICH	1920-66 1960-66	10 1	1 1				8 1	1 1	1 1	1 1				9 2	1 1		3 2	3 1
AGNES SCOTT COLLEGE GA	1920-66 1960-66	13 4	2 2				11 4		1 1					14 3		2 1	5 1	3 1
AGRIC MECH AND NORMAL COL ARK	1920-66 1960-66	2 1	1 1				1 1							5 1	2 2		1 1	2 2
AGRIC & TECH COLLEGE OF N C	1920-66 1960-66	5 4		2 1	1 1		3 3							13 6	9 2		3 3	1 1
AIR FORCE INST OF TECH OHIO	1920-66 1960-66	2 1		1 1							1 1							
AKRON UNIVERSITY OF	1920-66 1960-66	93 31	4 2	16 5	2 2	64 20	23 15	6 3		9 4	1 1	1 1	27 9	1 1	2 2	8 4	8 3	1 1
ALABAMA AGRIC & MECH COLL	1920-66 1960-66	1 1					1 1		1 1					2 1	2 1			
ALABAMA COLLEGE	1920-66 1960-66																	
ALABAMA STATE COLLEGE	1920-66 1960-66																	
ALABAMA UNIVERSITY OF	1920-66 1960-66	145 68	19 8	35 18	2 1	8 7	44 17	4 4	9 6	13 4	34 21	7 6	9 4	75 29	3 3	6 4	12 5	24 9
ALASKA UNIVERSITY OF	1920-66 1960-66	17 10	2 1	2 2						8 4	5 3		1 1	8 7	2 2	1 1	1 1	1 1
ALBANY STATE COLLEGE GA	1920-66 1960-66																	
ALBANY SUNY AT	1920-66 1960-66	57 26	11 5	4 1		1 1	40 19	10 8	8 7	1 1	1 1		1 1	31 16		2 2	11 9	8 4
ALBERTUS MAGNUS COLLEGE CONN	1920-66 1960-66	4 3	1 1				3 2		1 1					7 2		1 1	2 1	3 1
ALBION COLLEGE MICH	1920-66 1960-66	50 13	6 2	18 2			22 10	8 6	4 4	1 1	3 1	1 1		31 12	1 1	3 1	2 2	10 4
ALBRIGHT COLLEGE PA	1920-66 1960-66	36 15	2 2	3 2		1 1	29 10	9 8	2 2		2 1			20 3	1 1	1 1	4 1	8 1
ALCORN AGRIC & MECH COLL MISS	1920-66 1960-66	1 1					1 1							4 1	2 2		1 1	1 1
ALDERSON-BROADBENT COLL	1920-66 1960-66	2 2	1 1				1 1							2 2			1 1	1 1
ALFRED UNIVERSITY N Y	1920-66 1960-66	109 49	7 3	9 7	1 1	4 4	33 9	6 4	4 2	3 1	57 29		1 1	20 6	1 1		8 2	4 1
ALLEGHENY COLLEGE PA	1920-66 1960-66	96 27	6 3	19 3		3 3	61 17	12 8	6 4	9 3	1 1			48 8	3 3	3 3	11 3	21 4
ALLEN UNIVERSITY S C	1920-66 1960-66	1 1	1 1															
ALLIANCE COLLEGE PA	1920-66 1960-66	2 1		1 1		1 1	1 1							1 1			1 1	
ALMA COLLEGE MICH	1920-66 1960-66	25 5	1 1	1 1			23 5	7 2	1 1					22 5	2 1	1 1	7 2	6 6
ALMA WHITE COLLEGE N J	1920-66 1960-66																	
ALVERNO COLLEGE WISC	1920-66 1960-66	3 2	1 1	1 1			1 1							1 1			1 1	
AMER CONSERV OF MUSIC ILL	1920-66 1960-66																	
AMERICAN INTER-NATL COLL MASS	1920-66 1960-66	11 2	1 1	2 1		1 1	8 2							11 4		2 1	1 1	7 2

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		
11 4	3 2	1 1	1 1	2 1	2 1	37 14	5 1	10 7	2 1	2 2	15 4	2 1	18 8	2 1	16 7	43 20	135 64	ABILENE CHRIS- TIAN COLL TEX	
5 2			2 1	1 1	1 4	4 3	1 1				2 2	1 1				21 12	35 21	ADAMS STATE COLLEGE COLO	
35 16	29 14		2 1		2 1	21 7	4 1	3 1	6 3		3 2		2 1	1 1	1 1	28 5	112 39	ADDELPHI UNIVERSITY N Y	
3 1	2 1		1 1			4 1		1 1		1 1	2 1		4 2		4 2	12 5	42 12	ADRIAN COLLEGE MICH	
4 1	3 1			1 1	38 14	6 1	17 8	9 2	5 3			1 1	1 1		1 1	5 3	75 25	AGNES SCOTT COLLEGE GA	
5 3	1 1		2 1	1 1	1 1								2 1	1 1		18 12	33 18	AGRIC MECH AND NORMAL COL ARK	
8 2				4 1	2 3			3 1					1 1			17 9	47 22	AGRIC & TECH COLLEGE OF N C	
													2 2	2 2			4 3	AIR FORCE INST OF TECH OHIO	
45 14	19 5	2 1	2 1	10 4	10 2	41 12	6 1	12 5	10 2	1 1	2 1	9 3	5 2	2 1	2 1	32 17	243 85	AKRON, UNIVERSITY OF	
1 1	1 1					1 1					1 1		1 1	1 1		7 3	13 6	ALABAMA AGRIC & MECH COLL	
7 6	3 3			2 2	1 1	8 3	2 1	3 1	2 1		1 1		1 1			11 6	27 16	ALABAMA COLLEGE	
3 1	1 1		2 1			1 1						1 1	1 1			22 6	27 9	ALABAMA STATE COLLEGE	
84 33	35 19		11 4	16 2	19 5	117 34	46 12	36 11	21 3		3 1	7 6	2 1	33 15	24 12	3 2	133 53	587 232	ALABAMA, UNIVERSITY OF
8 5	1 1	5 2		1 1		2 2		1 1	1 1							1 1	36 23	ALASKA, UNIVERSITY OF	
																2 2	2 2	ALBANY STATE COLLEGE GA	
34 11	18 4		3 2	5 1	5 3	69 34	17 10	29 16	9 3	3 1	1 1	7 3	2 1	9 6	5 4	169 57	369 150	ALBANY, SUNY AT	
1 1				1 1		6 3		1 1	3 1	1 1	1 1		2 1		1 1	5 2	25 12	ALBERTUS MAGNUS COLLEGE CONN	
31 7	8 3	1 1	3 2	7 2	7 2	43 9	6 1	6 1	3 1	2 1	6 1	16 2	4 3	8 3	1 1	7 3	40 19	208 60	ALBION COLLEGE MICH
13 8	5 3		2 1	3 2	1 1	6 2	1 1	1 1	3 1			1 1		10 3		10 3	22 3	107 34	ALBRIGHT COLLEGE PA
2 1	1 1			1 1		2 1	1 1				1 1		1 1		1 1	10 6	20 10	ALCORN AGRIC & MECH COLL MISS	
1 1			1 1			3 2	2 1				1 1					2 2	10 9	ALDRSON- BROADBUSH COLL	
12 5	8 4		1 1	1 1	2 1	15 4	5 2		3 1	1 1	1 1	2 1	3 1	2 1		1 1	31 9	189 73	ALFRED UNIVERSITY N Y
47 15	32 13	1 1	1 1	3 2	8 2	58 20	15 5	23 9	8 3	1 1	5 2	3 1	1 1	10 1		9 1	48 14	307 85	ALLGHENY COLLEGE PA
						1 1										6 3	8 3	ALLEN UNIVERSITY S C	
1 1				1 1		1 1	1 1										5 2	ALLIANCE COLLEGE PA	
10 6	5 4		1 1		2 1	11 2	2 1	5 1	2 1		1 1		1 1	3 2	2 1	1 1	16 10	87 30	ALMA COLLEGE MICH
1 1			1 1			6 5	1 1	2 1	1 1		1 1		1 1				2 1	2 1	ALMA WHITE COLLEGE N J
1 1	1 1					15 5					1 1	14 5					7 4	23 10	ALVERNO COLLEGE WISC
11 4	6 2		2 1			5 4	1 1	1 1	1 1		1 1		1 1	4 2	2 1	1 1	13 8	55 24	AMERICAN INTER- NATL COLL MASS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	
AMERICAN UNIVERSITY D C	1920-66 1960-66	22 8	4 2	3 2			12 1	1 1	2 2	2 2	1 1			18 2	1 1	1 1	4 2	6 2		6 6	
AMHERST COLLEGE MASS	1920-66 1960-66	193 77	19 6	58 25	3 2	7 7	78 23	19 14	8 5	27 15	11 8	2 2	1 1	71 35	3 2	6 6	13 9	23 13	1 1	25 11	
ANDERSON COLLEGE IND	1920-66 1960-66	1 1					1 1	1 1						1 1			1 1				
ANDOVER NEWTON THEOL SCH MASS	1920-66 1960-66																				
ANDREWS UNIV MICH	1920-66 1960-66	24 7	5 4	7 2		2 2	12 1	2 1	1 1					22 8		1 1	10 5	1 1		10 2	
ANNA MARIA COLL FOR WOMEN MASS	1920-66 1960-66													1 1			1 1				
ANNHURST COLLEGE CONN	1920-66 1960-66																				
ANTIOCH COLLEGE OHIO	1920-66 1960-66	127 46	16 11	31 13	3 3	5 4	60 14	11 7	6 2	11 4	9 4		2 1	40 16	3 2	3 1	22 5	3 2	1 1	8 5	
APPALACHIAN ST TEACH COLL N C	1920-66 1960-66	3 2	1 1	1 1						1 1				7 6			2 1	1 1	4 4		
AQUINAS COLLEGE MICH	1920-66 1960-66	10 8	1 1				9 7	4 4						3 2			2 1		1 1		
AQUINAS INST OF PHIL & TH ILL	1920-66 1960-66																				
ARIZONA STATE UNIVERSITY	1920-66 1960-66	31 21	5 4	2 2		1 1	22 14	12 11	3 3	1 1	1 1			32 23	10 6	2 2	3 3	8 5	1 1	8 6	
ARIZONA UNIVERSITY OF	1920-66 1960-66	166 75	16 10	22 10	4 3	3 3	66 16	10 6	10 5	21 10	41 29	1 1	14 10	118 46	34 11	7 3	21 9	22 8		34 15	
ARKANSAS AGRIC AND MECH COLL	1920-66 1960-66	2 1	1 1				1 1							7 5	1 1		3 2		3 2		
ARKANSAS COLLEGE	1920-66 1960-66	7 1					7 1	1 1													
ARKANSAS POLY- TECHNIC COLL	1920-66 1960-66													2 1	1 1					1 1	
ARKANSAS STATE COLLEGE	1920-66 1960-66	13 5		1 1			11 5	3 3	2 2		1 1			7 4	3 2	1 1		3 2			
ARKANSAS STATE TEACHERS COLL	1920-66 1960-66	15 5	5 3	2 2			8 2	3 1	1 1					3 2			2 1	1 1			
ARKANSAS UNIVERSITY OF	1920-66 1960-66	159 60	16 9	20 8	2 1	5 3	63 7	6 3	8 3	5 5	51 35	20 11	10 9	170 80	80 48	13 5	16 10	35 14	1 1	25 2	
ARMSTRONG SCH OF BUS CAL	1920-66 1960-66																				
ASBURY COLLEGE KY	1920-66 1960-66	3 1		1 1			2 1							10 9		1 1	4 4		1 1	4 3	
ASHLAND COLLEGE OHIO	1920-66 1960-66	12 2	2 2				10 2	1 1						5 1			3 1	1 1		1 1	
ASSUMPTION COLLEGE MASS	1920-66 1960-66	3 3					2 2				1 1			2 1			1 1			1 1	
ATHENAEUM OF OHIO, THE	1920-66 1960-66	1 1		1 1										2 1		1 1	1 1				
ATHENS COLLEGE ALA	1920-66 1960-66																				
ATLANTA LAW SCHOOL	1920-66 1960-66																				
ATLANTA UNIVERSITY	1920-66 1960-66	2 2	1 1				1 1														
ATLANTIC CHRIST COLLEGE N C	1920-66 1960-66													2 1	1 1			1 1			
ATLANTIC UNION COLLEGE MASS	1920-66 1960-66	4 4	1 1	2 2			1 1							1 1			1 1				
AUBURN UNIVERSITY ALA	1920-66 1960-66	156 77	16 10	30 10		6 4	52 15	15 8	3 1	1 1	57 41	13 5	9 7	165 63	64 21	18 5	21 8	40 16		22 13	

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
55 26	13 7		4	14 8	22 10	26 6	11 3	8 2	2		1	1	3	10 6	2	4	13	144 55	AMERICAN UNIVERSITY D C
116 38	30 12	4 2	6 2	49 15	22 6	226 78	82 29	85 34	24 3	7 2	12 5	1	9 5	27 2	8 1	9 1	34	667 237	AMHERST COLLEGE MASS
5 4	2 2		1 1		1 5	1 1					2 1	1	1	12 8	2 1	9 6	19	43 25	ANDERSON COLLEGE IND
					2				1	1				1		1		3	ANDOVER NEWTON THEOL SCH MASS
3 2	2 2		1		25 11	7 2	1 1	5 1	2		6 4	3 1	6 3	1	3 2	39 14	119 45	ANDREWS UNIV MICH	
																		1	ANNA MARIA COLL FOR WOMEN MASS
1 1			1 1		3 2		3 2										1	5	ANNHURST COLLEGE CONN
122 58	70 30	8 4	12 8	15 3	12 8	28 15	8 5	7 3	2 1	1	3 1	6 4	1	6 3	3 1	1 1	35 18	358 156	ANTIOCH COLLEGE OHIO
2				1	9 7	7 5	2 2							1		1	35 19	57	APPALACHIAN ST TEACH COLL N C
4 4			2 2		1 4	4 1	1 2	1 1									1 1	22 19	AQUINAS COLLEGE MICH
					2		1			1								2	AQUINAS INST (OF PHIL & TH ILL
24 18	15 10	1 1		6 5	21 12	5 3	6 3	2 1		2 2	6 3		3 1		3 1		79 42	190 117	ARIZONA STATE UNIVERSITY
102 42	41 23	26 6	2 1	17 6	9 4	56 22	15 7	9 4	13 3	2 2	6 1	8 3	3 2	11 6	2 1	5 2	52 26	505 217	ARIZONA, UNIVERSITY OF
2			1 1	1 1										2 2	2 2		12 7	25 16	ARKANSAS AGRIC AND MECH COLL
3	2		1		5 1		5 1							2 1			5 4	22 7	ARKANSAS COLLEGE
1 1			1 1		1 1		1 1						1			1	11 11	16 14	ARKANSAS POLY- TECHNIC COLL
8 6	1 1		1	6 5	7 4		6 3				1 1		3 3	3 3			23 14	61 36	ARKANSAS STATE COLLEGE
6 4	2 2			3 2	6 2	3 1	3 1						2 2	2 2			59 28	91 43	ARKANSAS STATE TEACHERS COLL
77 26	24 7		2 1	41 16	6 1	64 28	23 7	23 13	9 5	1 1	3 1	4 2		37 20	18 12	2 40	585 254	ARKANSAS, UNIVERSITY OF	
					1			1					1 1	1 1			1	3	ARMSTRONG SCH OF BUS CAL
13 2	7 2	1	4		1 30	8 5	5 2	5 2	1 1	4 1	5 1	2	36 9	1 1	34 7	25 8	117 37	ASBURY COLLEGE KY	
5	1		3		1 5		1 1			1 1	2		3 1	1 1	2	17	47	ASHLAND COLLEGE OHIO	
2 2				2 2	12 2	3	2	6 2	1				1 1				20	ASSUMPTION COLLEGE MASS	
1 1				1 1	5 3	4 2				1 1			9 1		9 1	4 3	22	ATHENAEUM OF OHIO, THE	
					2 1			2 1								2 1	4	ATHENS COLLEGE ALA	
1 1	1 1																	1	ATLANTA LAW SCHOOL
2				2	2	1	1										4	10	ATLANTA UNIVERSITY
2			2		3 1	2 1	1 1						3 3	1 1	2 2	13 3	23	ATLANTIC CHRIST COLLEGE N C	
2 2			1 1	1 1	8 5	4 2	1 1	1 1			1 1	1 1	1 1			6 5	22	ATLANTIC UNION COLLEGE MASS	
33 20	15 9	1 1	1 1	12 8	3 1	27 12	14 4	8 3	1		3 3	1 1	17 12	10 6	1 1	79 34	477 218	AUBURN UNIVERSITY ALA	

Appendix B
continued

Continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																				
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
AUGSBURG COLLEGE MINN	1920-66 1960-66	5 4		1			2 1	1	1	1		1	5 2	2		1						2
AUGUSTANA COLLEGE ILL	1920-66 1960-66	96 31	4 1	1			54 18	15 8	13 9	35 11	2 1	1	27 11	2 1		10 6	4 1	1		10 3		
AUGUSTANA COLLEGE S O	1920-66 1960-66	17 7		3 1			14 6	3 2	5 4				13 11			5 4	3 2			5 5		
AURORA COLLEGE ILL	1920-66 1960-66	5 2	1 1	1			3						6 1			1	1			4 1		
AUSTIN COLLEGE TEX	1920-66 1960-66	20 8	1	2 1		1	17 7	7 3	2				11 6			4 3	2 1			5 2		
AUSTIN PEAY STATE COL TENN	1920-66 1960-66	5 5		1		1	4	1	1				6 4			2	1	1	1	2		
AUSTIN PRESBYT THEOL SEM	1920-66 1960-66												1				1					
AVILA COLLEGE MO	1920-66 1960-66																					
AZUSA COLLEGE CAL	1920-66 1960-66																					
BABSON INST OF BUS ADMIN MASS	1920-66 1960-66																					
BAKER UNIVERSITY KAN	1920-66 1960-66	28 8	3	2			23 8	4 3	3 3				8 2	1		1	3		3			
BALOWIN-WALLACE COLLEGE OHIO	1920-66 1960-66	35 8	4 2	4			24 5	2 2	1		3	1	14 6		2	2	5		5			
BALL STATE UNIVERSITY INO	1920-66 1960-66	15 2	6 2	2			6			1			12 3	2	2	1	2	1	4 2			
BALTIMORE, UNIVERSITY OF	1920-66 1960-66																					
BANGOR THEOL SEMINARY ME	1920-66 1960-66																					
BAPTIST BIBLE SEMINARY N Y	1920-66 1960-66																					
BARAT COLL OF SACRED HT ILL	1920-66 1960-66	1					1						2 1			1			1			
BARO COLLEGE N Y	1920-66 1960-66	6	3				3		1				12 4			6 2	2 2		4			
BARNARD COLLEGE N Y	1920-66 1960-66	58 19	12 7	11 4			30 7	9 4	7 3	5 1			80 20		3 1	39 11	17 6		21 2			
BARRINGTON COLLEGE R I	1920-66 1960-66																					
BARRY COLLEGE FLA	1920-66 1960-66												1 1						1			
BATES COLLEGE ME	1920-66 1960-66	75 16	5	9			50 13	11 7	5 3	9 3	2	1	69 14	1	7 1	20 9	10 1	2	29 3			
BAYLOR UNIVERSITY TEX	1920-66 1960-66	88 33	11 6	20 10		4	48 13	5 4	10 6	8 3	1		52 12	3 1	6 2	16 6	6 1		21 2			
BEAVER COLLEGE PA	1920-66 1960-66												1 1			1						
BELHAVEN COLLEGE MISS	1920-66 1960-66	3 2	1	1			1 1		1													
BELLARMINE COLLEGE KY	1920-66 1960-66	11 9					11 9	9 7	1				7			5	1		1			
BELMONT ABBEY COLLEGE N C	1920-66 1960-66																					
BELMONT COLLEGE TENN	1920-66 1960-66												1 1				1					
BELOIT COLLEGE WISC	1920-66 1960-66	83 29	2 1	17 8	1	1	43 8	12 7	4 1	19 11	2		40 14	6 3		17 6	7 4	1	9			
BEMIDJI STATE COLLEGE MINN	1920-66 1960-66	1	1										6 2	1 1			2		3			

Doctorates by Field															Institution of Baccalaureate				
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS			BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
9	7		1		1	11	6	1	2		2		2		2	10	2	42	AUGSBURG COLLEGE MINN
20	4	1	3	3	9	51	23	9	6	1	4	5	3	10	2	7	40	244	AUGUSTANA COLLEGE ILL
11	4		2	2	2	24	6	9	1		5	3	3	3	1	2	19	87	AUGUSTANA COLLEGE S D
2	1					2	1					1		4	1	3	9	28	AURORA COLLEGE ILL
10	3	1	1	3	2	12	6	4	1	1				4	1	3	9	66	AUSTIN COLLEGE TEX
7	2			2	1	6	3	2						2		2	2	31	
3	1			1		7	3	2			2		1		1	11	33	AUSTIN PEAY STATE COL TENN	
1						5	2	1								8	24	AUSTIN PRESBYT THEOL SEM	
1		1				1				1						1	3	AVILA COLLEGE MD	
1					1											1	2	AZUSA COLLEGE CAL	
1			1														1	1	BABSON INST OF BUS ADMIN MASS
26	9	1	8	6	1	21	4	4	1	1	2	7	2	21	2	19	37	141	BAKER UNIVERSITY KAN
6	2		1	1	1	3		1				2		2		2	8	29	
31	13		6	6	4	42	9	5	9	1	9	2	6	9	2	5	33	164	BALOWIN-WALLACE COLLEGE OHIO
12	7		2	2		13	2	2	2		5	2	2	3	1	18	60		
19	8		1	4	4	18	7	3	2		4	2	5	3	1	130	199	BALL STATE UNIVERSITY IND	
12	4		1	4	2	8	2	1	1		3	1	2	1	1	72	99		
						2	1		1								2	BALTIMORE, UNIVERSITY OF	
						1					1		2		2		3	BANGOR THEOL SEMINARY ME	
						1							1				2		
1	1					1	1									1	3	BAPTIST BIBLE SEMINARY N Y	
2				2		7	2	3	2							.5	17	BARAT COLL OF SACRED HT ILL	
						1		1								3	5		
11	5		1	1	4	20	7	7	6					1	1		2	52	BARO COLLEGE N Y
4	3				1	6	1	4	1					1		1	16		
129	75	18	12	12	10	135	28	38	35	10	9	15	5	5	1	43	450	BARNARD COLLEGE N Y	
50	27	6	5	4	6	47	11	15	10	3	3	5		3		13	152		
1	1					3	1			1	1			2	2	2	8	BARRINGTON COLLEGE R I	
																	8		
						1						1				1	3	BARRY COLLEGE FLA	
																	3		
39	15	2	5	9	7	59	22	11	9	8	4	5	13	3	10	57	312	BATES COLLEGE ME	
14	5		2	4	3	25	13	3	2		5	3	2	1	1	5	76		
76	35	1	12	16	10	126	38	47	13	1	8	8	46	14	25	75	463	RAYLOR UNIVERSITY TEX	
31	19		4	6	2	51	11	21	12		6	11	28	8	17	32	187		
2	2					4	1	1		1			1		1	2	10	BEAVER COLLEGE PA	
1	1					2							1			2	7		
						1	1									1	5	BELHAVEN COLLEGE MISS	
																	2		
2	2					3	3						1	1			24	BELLARMINE COLLEGE KY	
																	22		
						3	2			1			2		2		5	BELMONT ARBEY COLLEGE N C	
																	3		
																	1	REFMONT COLLEGE TENN	
57	9	12	5	18	11	35	10	14	3		3	2	3	2	2	19	236	BELNIT COLLEGE WISC	
16	7	4	1		3	10	1	6	1			1	1			6	75		
5	3			2		6	1	1				4				25	43	BFMIDJI STATE COLLEGE MINN	
						4										17	23		

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
BENEDICT COLLEGE S C	1920-66 1960-66												4			2				2
BENNETT COLLEGE N C	1920-66 1960-66												2		2					
BENNINGTON COLLEGE VT	1920-66 1960-66												2 1			1 1	1			
BEREA COLLEGE KY	1920-66 1960-66	66 28	7 3	20 11		5 5	28 11	1 1	9 8	9 3	2		2	65 26	24 15	4	14 5	7 2		16 4
BERKELEY BAPT DIV SCHOOL CAL	1920-66 1960-66																			
BERKELEY DIV- INITY SCH CONN	1920-66 1960-66																			
BERKSHIRE CHRIST C MASS	1920-66 1960-66																			
BERRY COLLEGE GA	1920-66 1960-66	19 11		6 4		1 1	12 7	3 2	1 1		1			10 8	5 5		2 2	1 1		2 1
BETHANY COLLEGE KAN	1920-66 1960-66	13 3	1	2			9 2	2 1	3 1	1 1				6			1 3			2
BETHANY COLLEGE W VA	1920-66 1960-66	32 6	4	4	1		19 5	3 2	2 2		5 1		1 1	25 5		1 1	8 4	5 5		11
BETHANY-NAZA- RENE COLL OKLA	1920-66 1960-66	10 4	1				9 3	4 2						2 1		1 1				
BETHANY THEOL SEMINARY ILL	1920-66 1960-66																			
BETHEL COLLEGE KAN	1920-66 1960-66	20 6	5 4	7 2		1 1	8						15 7	1		4 2	5 2			5 3
BETHEL COLLEGE TENN	1920-66 1960-66	3 3	3 3										2 1		1			1 1		
BETHEL COLL AND SEMINARY MINN	1920-66 1960-66	1 1					1 1													
BETHEL COLL, INC IND	1920-66 1960-66																			
BETHUNE-COOKMAN COLLEGE FLA	1920-66 1960-66																			
BIBLICAL SEM IN NEW YORK	1920-66 1960-66																			
BINGHAMTON, SUNY AT	1920-66 1960-66	6 5		1			5 4	2 2	2 1					7 4			3 2	1 1		3 1
BIOLA COLLEGE CAL	1920-66 1960-66																			
BIRMINGHAM- SOUTHERN COLL	1920-66 1960-66	46 14	9 2	11 5	1 1	1 1	24 7	3 2	2 1	1 1	1			21 6		1	10 5	2		8 1
BISHOP COLLEGE TEX	1920-66 1960-66																			
BLACKBURN COLLEGE ILL	1920-66 1960-66	7 6	1 1				6 5	1 1					12 7	1 1		8 3	1 1			2 2
BLACK HILLS STATE COLL S D	1920-66 1960-66	7 1	1 1				1						1 1							1 1
BLOOMFIELD COLLEGE N J	1920-66 1960-66																			
BLOOMSBURG STATE COLL PA	1920-66 1960-66	4					4 4	3 3						9 7			3 3	1 1		5 4
BLUE MOUNTAIN COLLEGE MISS	1920-66 1960-66																			
BLUEFIELD STATE COL W VA	1920-66 1960-66													1						1
BLUFFTON COLLEGE OHIO	1920-66 1960-66	15 2	3 1				12 1	2 1	1					10 1	2		1 1	1 1	1	5
BOB JONES UNIVERSITY S C	1920-66 1960-66	3 2					3 2	2 2						4 3				4 3		

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
						4		2	1				2		2		3	13	BENFOIST COLLEGE S C
						1		1									4	7 BENNETT COLLEGE N C	
3	2			1		1											2	7 BENNINGTON COLLEGE VT	
62	12	1	6	28	15	26	6	9	4		2	3	2	8	1	6	36	263 BERFA COLLEGE KY	
17	2	1	2	6	6	9	2	4	2					1		1	14	1 BFRKELEY BAPT DIV SCHOOL CAL	
														1		1		1 BFRKELEY DIV-INTITY SCH CONN	
						1		1						1		1		1 BFRKSHIRE CHRIST C MASS	
1					1	4	3	1						2	1	1	11	47 BERRY COLLEGE GA	
4			2	2	14	4	2					8		3		3	13	53 BFTHANY COLLEGE KAN	
16	7		3	5	1	9	5	2	1		1		10	1		10	25	117 BETHANY COLLEGE W VA	
6	3		3	3	3	3	5	1	1				2			2	27		
																		59 BETHANY-AZA-RENE COLL OKLA	
8	5		2		1	10	3				5	2		7	1	5	22	31 BETHANY THEOL SEMINARY ILL	
3	3					1		1						4				1	
19	9	1	2	3	3	16	3	5	1	1	1	2	3	11	1	9	18	99 BETHEL COLLEGE KAN	
10	4	1		2	2	8		3						5	1	3	7	43 BETHEL COLLEGE TENN	
						3		1	1		1			2		2	12	22 BETHEL COLL AND SEMINARY MINN	
						1		1	1	1	1			2		2		9	
						5	2	1	1	1	1			1		1		7	
2	2					1					1			1		1		4	
2	2					1								1				4	
							1										4	4 BETHUNE-COOKMAN COLLEGE FLA	
						1	1										1	2 BIBLICAL SEM IN NEW YORK	
5	2		3			9	1	3	4			1						27 BINGHAMTON, SUNY AT	
4						6	2		3	1				2		1	2	21	
						6	2		3	1				1			2	10 BIOLA COLLEGE CAL	
																		9	
40	21		4	8	7	60	19	24	5	3	3	3	3	14	1	13	39	220 BIRMINGHAM-SOUTHERN COLL	
14	10		1	2	1	20	5	5	4		2	2	2	5		5	14	3	
1	1					2		1					1	1	1		10	14 BISHOP COLLEGE TEX	
1	1					1								1			3	6	
11	2		4	5		2		1	1								1	33 BLACKBURN COLLEGE ILL	
10	2			4		2											1	26	
1				1		1						1					12	17 BLACK HILLS STATE COLL S D	
						1											9	12	
1				1	1					1				3		3	1	6	
																	1	1 BLOOMFIELD COLLEGE N J	
																		1	
4	1	1			1	3	1	1				2		1	1		38	59 BLOOMSBURG STATE COLL PA	
2	2					8	2	2	3			1					4	34	
						5	2	2	1								1	14 BLUF MOUNTAIN COLLEGE MISS	
1				1										1		1	7	10 BLUFFFIELD STATE COL W VA	
																	3	3	
12	4		1	1	6	11	4	1	1			4		5		4	21	74 BLUFFTON COLLEGE OHIO	
1	1					3	1					2		1		1	10	18	
						13	1	4	1		1	5	1				9	29 BOB JONES UNIVERSITY S C	
						10						3	1					24	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOG, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	
ABERDEEN SEMINARY OHIO	1920-66 1960-66																				
BOSTON COLLEGE	1920-66 1960-66	133 62	7 4	44 27	3 3	10 10	76 30	29 18	9 7	3 3	3 1	1 1	35 16	5 4	18 9	6 2				6 1	
BOSTON CONSERV OF MUSIC	1920-66 1960-66																				
BOSTON STATE COLL AT	1920-66 1960-66												5 1	3				1 1		1 1	
BOSTON UNIVERSITY	1920-66 1960-66	120 54	13 4	24 6	1 1		64 31	15 9	19 12	16 11	3 2		76 30	9 3	23 8	19 12		1 1		24 6	
BOYCE-BOSTON SCHOOL	1920-66 1960-66																				
BOWDOIN COLLEGE ME	1920-66 1960-66	95 34	9 4	33 13	1 1	4 4	39 9	10 7	3 2	6 4	8 4	1 1	43 11	2 2	6 2	8 5	3 2			24 2	
BOWLING GREEN COLL OF COM KY	1920-66 1960-66																				
BOWLING GREEN ST UNIV OHIO	1920-66 1960-66	56 28	7 3	6 2		1 1	38 19	12 9	9 6	4 3	1 1		11 1	2 1	1 1	7 4	5 2	3 3	3 1	3 1	
BRADLEY UNIVERSITY ILL	1920-66 1960-66	65 33	5 4	6 2			41 16	17 10	6 3	2 1	11 10		1 1	14 5		10 4	1 1			3 1	
BRANDEIS UNIV MASS	1920-66 1960-66	10 9	2 2	3 3	1 1	1 1	4 4	2 2					10 10			4 4	5 5			1 1	
BRENEAU COLLEGE GA	1920-66 1960-66																				
BRESCIA COLLEGE KY	1920-66 1960-66												1 1							1 1	
BRIAR CLIFF COLLEGE IOWA	1920-66 1960-66																				
BRIARCLIFF UNIVERSITY OF	1920-66 1960-66	4 4	1 1	1 1							2 2		2 2			1 1	1 1				
BRIDGEWATER COLLEGE VA	1920-66 1960-66	19 4	4 1				12 2	1 1	2 1	3 1			21 9	1 1	1 1	3 3	6 3			9 2	
BRIDGEWATER ST COL AT, MASS	1920-66 1960-66	7 4	2 1				4 3	2 1	2 2	1 1			3 1					1 1		2 1	
BRIGHAM YOUNG UNIV UTAH	1920-66 1960-66	208 103	5 4	44 17	3 2	4 3	94 41	30 15	20 12	33 17	32 24	7 6	6 6	242 74	90 23	5 4	41 13	59 19	5 3	42 12	
BROCKPORT SUNY COLL AT	1920-66 1960-66												1 1				1 1				
BROOKLYN COLLEGE	1920-66 1960-66	660 257	123 65	172 50	7 7	20 11	322 122	74 55	67 48	26 11	17 9	2 1	3 2	233 116	3 1	20 6	85 38	109 52		66 19	
BROOKLYN LAW SCHOOL	1920-66 1960-66																				
BROWN UNIVERSITY RI	1920-66 1960-66	362 121	47 18	67 24	5 5	4 3	184 48	57 28	23 12	25 7	39 24	3 1	8 5	147 34	5 1	8 3	40 10	33 12	3 1	58 7	
BRYANT COLLEGE RI	1920-66 1960-66													1				1			
BRYN MAWR COLLEGE PA	1920-66 1960-66	46 13	11 2	5 1			25 9	11 6	4 2	4 1	1 1		39 15		5 2	15 8	9 4			10 1	
BUCKNELL UNIVERSITY PA	1920-66 1960-66	94 27	15 3	7 2			41 2	15 7	4 1	4 2	27 11	9 3	5 2	56 18	1 1	6 1	18 8	16 6		15 2	
BUENA VISTA COLLEGE IOWA	1920-66 1960-66	7 2	1 1	1 1			5 1	1 1	2 2				3			1 1	1 1			1 1	
BUFFALO SUNY COLL AT	1920-66 1960-66	4 1	2 1								2 1		2 1	3		1				2	
BUFFALO SUNY AT	1920-66 1960-66	205 62	32 11	47 9		6 4	101 26	23 12	11 5	11 6	14 10		9 6	85 38	2 1	13 6	22 14	25 13	2 2	21 3	
BUTLER COLLEGE TEX	1920-66 1960-66	4	2				2														
BUTLER UNIVERSITY IND	1920-66 1960-66	40 9	7 3	7 2			25 3	6 2	2 1	1 1			59 16		7 3	8 4	6 4	4 4		4 4	

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	
68 24	23 13	1	10	23 9	9 2	131 49	35 8	38 19	19 6	12 6	20 7	3 2	1 5	3 2	8 1	80 34	463 190	BORROMEO SEMINARY OHIO	
						2 1						2 1					2 1	BOSTON COLLEGE	
1 1	1 1					3		3								14 8	23 10	BOSTON CONSERV OF MUSIC	
189 74	99 39	4 2	23 8	35 12	22 9	186 55	41 12	59 16	32 9	3 1	23 6	9 4	14 7	42 8	10 2	26 5	271 109	884 330	BOSTON, STATE COLL AT
																		884 330	BOSTON UNIVERSITY
																		2 2	BOUVE-BOSTON SCHOOL
48 18	14 9	3 1	3	8 1	18 6	128 35	31 10	31 10	33 8	12 4	8 2		5 1	11 2	4 1	2 2	23 6	348 106	BOWDOIN COLLEGE ME
2				2										5 3	5 3		10 2	17 5	BOWLING GREEN COLL OF COM KY
36 15	17 6		10 5	4 1	3 3	52 34	16 9	10 10	3 1		1 2	20 12	2 2	11 8	8 5		68 35	244 131	BOWLING GREEN ST UNIV OHIO
30 21	14 12			7 4	8 5	14 2	4 1	6				3 1	1 1	6 4	4 3	2 1	41 18	170 83	BRADLEY UNIVERSITY ILL
41 35	20 18	1 1	4 3	5 3	11 10	19 19	7 7	3 3	5 5		4 4						1 4	81 74	BRANDEIS UNIV MASS
1			1			5 1	3 1	2										10 3	BRENEAU COLLEGE GA
						1 1	1 1						1 1		1 1			3 3	BRESCIA COLLEGE KY
1				1		1 1		1 1					1 1		1 1		2 2	5 3	BRIAR CLIFF COLLEGE IOWA
9 5	6 3		1		1 1	1 1	1 1						1 1				12 4	29 18	BRIDGEPORT, UNIVERSITY OF
17 2	7 1		2 1	5 2	2 1	18 3	6 1	4 3	4 3		2 1	1 1	4 3		4 3		20 4	99 25	BRIDGEWATER COLLEGE VA
6 3			1			5 2	1 2	3 2				1					51 14	72 24	BRIDGEWATER, ST COL AT, MASS
136 61	54 30	3 1	36 9	22 11	14 7	136 70	25 11	29 14	33 21	2 2		32 15	14 7	38 20	29 15	3 3	192 103	952 431	BRIGHAM YOUNG UNIV UTAH
6 1	4					4 3	2 2	1				1 1					39 25	50 30	BROCKPORT, SUNY COLL AT
646 329	447 221	20 12	45 27	79 32	38 24	330 165	81 45	103 54	63 23	8 7	17 8	47 21	11 7	34 23	11 8	14 9	240 129	2193 1019	BROOKLYN COLLEGE
6 3	2 2		1 1	3 1		3 1	2 1		1				6 3		1 1		1 1	16 8	BROOKLYN LAW SCHOOL
173 65	96 42	7 2	13 3	30 10	22 7	157 40	47 12	52 15	29 5	10 3	10 3	2 2		27 3	7 1	11 2	56 20	922 283	BROWN UNIVERSITY R I
1				1										1 1	1 1		4 2	7 3	BRYANT COLLEGE R I
81 17	29 7	22 3	8 2	14 2	8 3	140 35	26 4	34 13	37 12	21 3	15 3		7 3	8		2 2	9 2	323 82	BRYN MAWR COLLEGE PA
68 21	50 14		1	5 4	6 1	40 11	10 4	17 6	4 1	2 3	3 2	2 2	11 4	5 4	5 5		56 13	325 94	BUCKNELL UNIVERSITY PA
1				1		3 1	1 1	2 1						1 1	1 1		23 11	38 14	BUENA VISTA COLLEGE IOWA
19 4	8 1		5 3	1		11 3	4 3	2		1		4 3		1 1			137 40	175 49	BUFFALO, SUNY COLL AT
103 37	62 15	2 2	14 11	15 5	3 1	65 29	19 7	18 9	9 3	4 4	9 7	4 3	1 3	18 8	16 7	1 1	85 35	561 209	BUFFALO, SUNY AT
3				1 1	1 1	1			1									8	BUTLER COLLEGE TEX
25 12	11 6		5 2	6 2	1	49 14	11 2	9 2	6 3	4 3	7 1	5 3	7 3	17 4	1 1	14 3	51 23	241 78	BUTLER UNIVERSITY IND

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, RIOPHYS.	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CALDWELL COLL FOR WOMEN N J	1920-66 1960-66												2		1		1				
CALIF COLL OF ARTS & CRAFTS	1920-66 1960-66																				
CALIF COLLEGE OF MEDICINE	1920-66 1960-66	1		1																	
CALIFORNIA INST OF TECHNOLOGY	1920-66 1960-66	907 330	90 49	291 114	29 26	22 17	175 42	27 16	21 14	89 24	262 101	25 11	64 23	77 26			55 20	9 3		13 3	
CALIF STATE COLLEGE PA	1920-66 1960-66	1		1																	
CALIF ST COLL AT LONG BEACH	1920-66 1960-66	6		5	1	1	1		1				10 10			1	3	1	5		
CALIF ST COLL AT LOS ANGELES	1920-66 1960-66	2 1	1	1									8 8		1	1	3		3		
CALIF STATE POLYTECH COLL	1920-66 1960-66	11 10					4			2	5		3 2	60 41	37 25	1	7 5	12 9	1	1	
CALIF, UNIV OF, BERKELEY	1920-66 1960-66	1727 613	175 68	422 146	54 44	35 26	623 148	101 65	79 42	126 32	381 219	49 34	77 47	1100 236	150 29	71 19	330 77	276 59	4	269 50	
CALIF, UNIV OF, DAVIS	1920-66 1960-66	24 20	1				20 16	3 3	4 4		3 3			148 95	33 19	18 9	43 27	43 31	3	8 7	
CALIF, UNIV OF, LOS ANGELES	1920-66 1960-66	676 285	112 52	149 52	7 7	10 7	242 71	43 31	26 17	86 41	87 69	12 9	16 15	347 136	18 4	14 8	94 37	95 44	3	123 41	
CALIF, UNIV OF, RIVERSIDE	1920-66 1960-66	49 48	7 7	10 10	1 1	5 5	28 27	11 10	6 6	4 4				11 11	1		2	2	1	5	
CALIF, UNIV OF, SAN FRANCISCO	1920-66 1960-66	7 7					7 7							5 4		1	3			1	
CALIF, UNIV OF, SANTA BARBARA	1920-66 1960-66	17 13		3			9 7	6 5	1 1	5 4				33 19			6	7	2	18 11	
CALIF WESTERN UNIVERSITY	1920-66 1960-66																				
CALVARY BIBLE COLLEGE MO	1920-66 1960-66																				
CALVIN COLLEGE MICH	1920-66 1960-66	83 41	6 5	6 3		2	66 30	15 12	16 12		5 3			39 22	3 2	1 1	10 5	7 4		18 10	
CALVIN THEOL SEMINARY MICH	1920-66 1960-66																				
CAMPBELLSVILLE COLLEGE KY	1920-66 1960-66																				
CANISIUS COLLEGE N Y	1920-66 1960-66	78 35	7 4	20 8	1 1	6 5	47 20	14 11	5 4		4 3			9 2		1	5 2	1		2	
CAPITAL UNIV OHIO	1920-66 1960-66	34 15		10 6		3	23 8	6 3	3 2	1				16 3			2	5		9 1	
CARDINAL GLEN-NDON COLLEGE MO	1920-66 1960-66																				
CARO STRITCH COLLEGE WISC	1920-66 1960-66	1 1					1							1						1	
CARLETON COLLEGE MINN	1920-66 1960-66	150 55	11 7	37 15	4 3	9 8	70 16	11 4	13 9	24 13	8 4	1 1	1 1	64 19	5 2	3	20 5	9 2	1 1	26 9	
CARNEGIE INST OF TECH PA	1920-66 1960-66	699 290	67 29	174 66	16 13	29 19	118 31	25 10	29 15		340 164	65 32	86 49	15 5			10 3	3 1		2 1	
CARROLL COLLEGE WISC	1920-66 1960-66	24 10	1	2	2		21 7	2	4					18 6	1		6	6		5	
CARROLL COLLEGE MONT	1920-66 1960-66	13 3	3	3			7 3	1	1					9 3			3	2		4	
CARSON-NEWMAN COLLEGE TENN	1920-66 1960-66	19 7		3 3		2	16 4	3 2	3 1					9 4		1	2 1	3 1		3 1	
CARTHAGE COLLEGE WISC	1920-66 1960-66	26 3	2				23 3	5 2	3		1	1		13 7	2	2	6	1	1	1	
CASCADE COLLEGE OREG	1920-66 1960-66	1		1										1			1				

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
1	1					1		1											4 CALDWELL COLL FOR WOMEN N J
																		3	3 CALIF COLL OF ARTS & CRAFTS
																		2	1 CALIF COLLEGE OF MEDICINE
23	11			7	2	9	1	4	2		2			5	5		1	1022	CALIFORNIA INST OF TFCHNLOGY
7	1			5	1	1	1							2	2			366	
14	11		1			5	2	3									68	88	CALIF STATE COLLGE PA
						3		3									32	35	
13	8		3			8		3	3		1						18	55	CALIF ST COLL AT LONG BEACH
13	8					8		3	3								16	53	
30	19	1	5	1	4	17	4	6	1			5	1	1	1		25	83	CALIF ST COLL AT LOS ANGELES
16	6	1	4	1	4	14	4	5	1			4		1	1		24	64	
4	2			2										1		1	6	82	CALIF STATE POLYTECH COLL
4	2			2										1		1	6	62	
823	277	97	68	211	116	672	234	130	158	29	61	25	28	83	43	18	449	4854	CALIF, UNIV OF, BERKELEY
271	109	35	29	44	31	193	56	38	49	8	15	12	12	23	18	3	142	1478	
16	2			14		2	1	1									12	202	CALIF, UNIV OF, DAVIS
13	2			11		2	1	1									8	138	
574	301	42	42	65	86	397	126	77	88	13	28	34	26	58	29	20	337	2389	CALIF, UNIV OF, LOS ANGELES
246	125	26	22	30	25	151	38	26	41			17	14	36	26	7	173	1027	
17	4	2		2	9	8	2	1	4		1						2	87	CALIF, UNIV OF, RIVERSIDE
17	4	2		2	9	8	2	1	4		1						2	86	
1					1	1		1									1	15	CALIF, UNIV OF, SAN FRANCISCO
																	1	12	
37	22	3	4	4	4	47	18	9			3	12	4	1			81	216	CALIF, UNIV OF, SANTA BARBARA
23	15	2	2	2	2	22	10	6			1	3	2	1			36	114	
1				1														1	CALIF WESTERN UNIVERSITY
1				1														1	
1		1															2	3	CALVARY BIBLE COLLGE MO
1																	2	3	
36	18		6	5	6	80	16	19	9	4	24	5	3	15	3	11	36	289	CALVIN COLLEGE MICH
21	11		4	2	3	35	10	10	2	2	4	4	3	7	2	4	21	147	
														1		1	1	2	CALVIN THEOL SEMINARY MICH
1																		1	CAMPBELLSVILLE COLLGE KY
1																		1	
12	5		4	2		19	7	7	1		1	1		3	1	2	24	145	CANISIUS COLLGE N Y
4	1		1			4	1	3									11	56	
5	2		2		1	34	8	5	4	2	8	3	4	13	1	12	25	127	CAPITAL UNIV OHIO
2	2					7	2	1			1	1	2	6	1	5	14	47	
																	1	1	CARDINAL GLEN- DON COLLGE MO
1			1			2	1		1								4	9	CARD STITCH COLLGE WISC
						1											2	4	
65	22	7	5	20	10	94	27	11	10	5	8	5	11	14	6	6	36	423	CARLETON COLLGE MINN
28	10	4		7	6	37	11	11	4	3	2	2	4	8	3	3	11	158	
30	16		6	6		35	1	3	2		1	11	16	22	16	2	40	841	CARNFEGIE INST OF TFCH PA
15	9		2	4		15		1			5	9		15	12	1	11	351	
21	7	2	8	3	1	20	6	4	1	3	1	1		3	1		18	104	CARRDLL COLLGE WISC
6	3		3			6	1	2									7	35	
2				1	1	3	1	2									1	28	CARROLL COLLGE MONT
1				1		2		1									1	10	
12	5		3	2	2	15	6	4	3		2			5		5	21	81	CARSON-NEWMAN COLLGE TENN
8	4		2	1	1	6	2							1		1	8	34	
3	2					8		2	1		4		1	9		8	17	76	CARTHAGE COLLGE WISC
2	1					1											9	22	
1	1					2	1					1		4		4	3	12	CASCADE COLLGE OREG
1	1					1											3	7	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIostatist	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOLOG	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
CASE INSTITUTE OF TECH OHIO	1920-66 1960-66	432 217	35 21	111 36	4	12 9	96 37	21 17	23 15	1	169 122	36 20	27 22	11 2	2	8 1			1	
CASTLETON STATE COLL. VT	1920-66 1960-66																			
CATAWBA COLLEGE N C	1920-66 1960-66	14 3	1	5 1			8 2	1 1	1				5	1	1	1			2	
CATHEDRAL COLL OF IM CONC N Y	1920-66 1960-66	1 1	1 1																	
CATHERINE SPALDING C KY	1920-66 1960-66	2 1					2 1		1											
CATHOLIC TEACH- ERS COLL. R I	1920-66 1960-66																			
CATHOLIC UNIV OF AMERICA O C	1920-66 1960-66	112 46	16 6	33 15	1 1	5 4	38 10	4 2	12 7	2 1	23 14	6 1	3 1	43 12	1	12 2	9 6		21 4	
CATHOLIC UNIV OF PUERTO RICO	1920-66 1960-66	1 1					1 1		1											
CEDAR CREST COLLEGE PA	1920-66 1960-66												2 1				2 1			
CENTENARY COLLEGE LA	1920-66 1960-66	32 9	1	2			26 8	8 6	2 1	2 1	1 1	1	1	7 4	1	1	1 1	3 2	1 1	
CENTRAL BAPT THEOL SEM KAN	1920-66 1960-66																			
CENTRAL BIBLE INSTITUTE MO	1920-66 1960-66																			
CENTRAL COLLEGE IOWA	1920-66 1960-66	27 13	3 2	3 2		1 1	20 9	7 6	1 1		1		15 7	4 2		5 3	4 2		2	
CENTRAL CONN STATE COLLEGE	1920-66 1960-66	11 4	3 1				8 3	1 1	2				3 3			1 1	2 2			
CENTRAL METHOD COLLEGE MO	1920-66 1960-66	69 14	4 1	8 1			55 12	9 4	5 3	2			24 8			9 4	4 3		11 1	
CENTRAL MICHIGAN UNIV	1920-66 1960-66	10 4		3 2		1 1	6 2		2 2	1			15 10	3 3	1 1	2 1	2 1		7 4	
CENT MISSOURI STATE COLLEGE	1920-66 1960-66	29 8	9 1	5 2		2 2	15 5	3 1					19 6	1 1	1	5 3	2 2		10 2	
CENTRAL STATE COLLEGE OHIO	1920-66 1960-66	1					1 1	1 1					4 4			2 2	2 2			
CENTRAL STATE COLLEGE OKLA	1920-66 1960-66	13 6	2	3 1			8 5	1 1	3 3				12 5	1 1	3 1		2 1	1 1	5 1	
CENTRAL WASH STATE COLLEGE	1920-66 1960-66	4 3		1 1	1		3 2	2 2	1				1 1						1 1	
CENT WESLEYAN COLLEGE S C	1920-66 1960-66																			
CENTRE COLL OF KENTUCKY	1920-66 1960-66	23 7		4 2			17 5	3 2	1 1	1	1		10 2	1	1	1 1	4 1		3	
CHAADRON STATE COLLEGE NEBR	1920-66 1960-66	17 3	1 1	1			15 2	2 1	4 1				7 1	5		1 1	1 1			
CHAPMAN COLLEGE CAL	1920-66 1960-66												1				1			
CHARLESTON, COLL OF, S C	1920-66 1960-66	30 5	2	4 1		1 1	21 2	1	3 1	1 1	2 1	1 1	22 8		4 2	6 2	2 2	1 1	9 1	
CHATHAM COLLEGE PA	1920-66 1960-66	6 3	1 1				5 2	1 1	1				7 1			3 1	1		3	
CHATTANOOGA, UNIVERSITY OF	1920-66 1960-66	24 3		9 1		1 1	15 2	2 1	2				11 5		2 1	5 1	2 2		2 1	
CHESTNUT HILL COLLEGE PA	1920-66 1960-66	5 4	1 1	1			3 2						2 2			1 1	1			
CHEYNEY STATE COLLEGE PA	1920-66 1960-66																			
CHICAGO CONSER- VATORY COLL	1920-66 1960-66																			

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY			EDUCATION
3			1	2		4	1	1		1		1	2	2			3	456	CASF INSTITUTE OF TECH OHIO
1						3											4	226	CASTLETON STATE COLL VT
4	2	1		1	6	1	1	4									24	53	CATAWBA COLLEGE N C
2	1	1			7	1	2		1	3			4		3		10	15	CATHEORAL COLL OF IM CONC N Y
2	2				10	3	2	2		3							2	11	CATHERINE SPALDING C KY
2					3		1	1		1							1	7	CATHOLIC TEACH-ERS COLL RI
69	25	4	14	15	10	250	54	40	37	36	78	2	2	397		383	89	960	CATHOLIC UNIV OF AMERICA D C
13	4	1	3	2	46	11	10	10	7	4	12	2		17		15	21	155	CATHOLIC UNIV OF PUERTO RICO
			1										1				1	1	CEDAR CREST COLLEGE PA
8	6		1	1	10	2	4	1		1		2	6	4	2		12	75	CENTENARY COLLEGE LA
4	4				4		2					2	6	4	2		3	30	
																	1	1	CENTRAL BAPT THFOL SEM KAN
						1				1								1	CENTRAL BIBLE INSTITUTE MO
11	6	1	1		2	8	2			4	1		4		4		24	89	CENTRAL COLLEGE IOWA
3		1			1	3	1			1	1		1		1		8	35	
13		6	2		1	3	2						3	2	1		65	98	CENTRAL CONN STATE COLLEGE
5						2	2										31	45	
7	1		3	3		27	5	13	3	2	1	3	6		6		35	168	CENTRAL MFTHOD COLLEGE MO
2	1		1			5	1	2	1			1	2		2		14	45	
24	9		7	3	1	23	2	7	4	1	1	7	2	2			92	166	CENTRAL MICHIGAN UNIV
10	4		4	1		8		3	1			3	1	2			47	79	
19	5		1	3	5	31	13	6	5			6	1	4	3	1	143	245	CENT MISSOURI STATE COLLEGE
	1				2	9	1	1	1			5	1	1	1		49	80	
2						2		1					1	1	1		8	18	CENTRAL STATE COLLEGE OHIO
1																			
8	1			2	4	12	3	5	2			2		1	1		78	124	CENTRAL STATE COLLEGE OKLA
3				1	2	1		1									40	55	
10	2	1				8	6	1				1	2	1	1		52	77	CENTRAL WASH STATE COLLEGE
5	2		1			3	2					1	1		1	26	39		

Appendix B
continued

		Doctorates by Field																					
Institution of Baccalaureate	Year of Doctorate	PHYSICAL SCIENCES AND ENGINEERING																					
		MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL		
CHICAGO-KENT COLL OF LAW	1920-66																						
CHICAGO-KENT COLL OF LAW	1960-66																						
CHICAGO THEOL SEMINARY	1920-66																						
CHICAGO THEOL SEMINARY	1960-66																						
CHICAGO, UNIVERSITY OF	1920-66	1099	202	286	14	32	463	69	29	126	22	3	3	556	11	70	229	91	2	153			
CHICAGO, UNIVERSITY OF	1960-66	237	62	83	10	26	64	26	13	21	7		2	107	1	12	57	15	2	20			
CHICO STATE COLLEGE CAL	1920-66	12	1	1		1	5	1	3	1	4		1	17	6	1	1	3	1	5			
CHICO STATE COLLEGE CAL	1960-66	9					4		3				1	5	2		1	1	1				
CHRISTIAN BROS COLLEGE TENN	1920-66	2	1								1	1											
CHRISTIAN BROS COLLEGE TENN	1960-66	2	1								1	1											
CINCINNATI BIBLE SEMINARY	1920-66																						
CINCINNATI BIBLE SEMINARY	1960-66																						
CINCINNATI, UNIVERSITY OF	1920-66	282	30	49	1	5	84	15	9	18	101	29	10	91	4	14	31	13	1	28			
CINCINNATI, UNIVERSITY OF	1960-66	128	12	14	1	5	27	11	9	10	65	20	7	27	1	6	10	6	1	3			
CITADEL, THE S CAR	1920-66	62	4	11		3	37	8	2		10	2	1	8		4	2			2			
CITADEL, THE S CAR	1960-66	23	2	4		3	13	7	4		4		1	3		2	1						
CITY COLLEGE OF CITY U OF N Y	1920-66	1553	187	291	16	40	681	166	75	71	323	61	79	463	7	29	217	119	2	89			
CITY COLLEGE OF CITY U OF N Y	1960-66	560	60	96	14	35	186	120	39	38	140	31	53	130	2	10	69	28	1	20			
CLAFLIN COLLEGE S C	1920-66													1						1			
CLAFLIN COLLEGE S C	1960-66																						
CLAREMONT MENS COLLEGE CAL	1920-66																						
CLAREMONT MENS COLLEGE CAL	1960-66																						
CLARION STATE COLL PA	1920-66	1	1											2					1	1			
CLARION STATE COLL PA	1960-66	1	1											1					1				
CLARK COLLEGE GA	1920-66	6	1				5	4						3				1	2				
CLARK COLLEGE GA	1960-66	5					5	4						2				1	1				
CLARK UNIV MASS	1920-66	85	6	10		1	65	13	6	3	1			52	3	4	20	11		14			
CLARK UNIV MASS	1960-66	13	2	1		1	10	3	3					13	1	2	5	4		1			
CLARKE COLLEGE IOWA	1920-66	1					1							3			1			2			
CLARKE COLLEGE IOWA	1960-66													2				1		1			
CLARKSON COLL OF TECH N Y	1920-66	68	1	5		1	29	7	13		33	16	5	4			4						
CLARKSON COLL OF TECH N Y	1960-66	42		4		1	15	5	9		23	12	4	3			3						
CLEMSON UNIVERSITY S C	1920-66	111	2	14		5	46	9	6		49	10	3	137	73	1	10	40	1	12			
CLEMSON UNIVERSITY S C	1960-66	51	1	8		5	11	4	2		31	7	1	24	11		1	8		4			
CLEVELAND INST OF MUSIC	1920-66																						
CLEVELAND INST OF MUSIC	1960-66																						
CLEVELAND STATE UNIVERSITY	1920-66	30	2	3			7		1		18	4	3	5			2	1		2			
CLEVELAND STATE UNIVERSITY	1960-66	14	2								12	4	3	4			2	1		1			
COE COLLEGE IOWA	1920-66	59	1	11		1	40	9	9	7				21	3		5	3		10			
COE COLLEGE IOWA	1960-66	14		2		1	12	5	3					4			3	1					
COKER COLLEGE S C	1920-66	1	1											3				1		2			
COKER COLLEGE S C	1960-66																						
COLBY COLLEGE ME	1920-66	36	3	5		1	16	1	1	11	1			15		1	4	3	1	6			
COLBY COLLEGE ME	1960-66	14		2		1	4	1	1	7	1			7			3	2	1	1			
COLGATE ROCHESTER DIV SCHOOL	1920-66																						
COLGATE ROCHESTER DIV SCHOOL	1960-66																						
COLGATE UNIVERSITY N Y	1920-66	93	10	14		2	54	9	10	12	3		1	28	2	2	6	3	1	9			
COLGATE UNIVERSITY N Y	1960-66	23	2	3		2	12	4	5	5	1		1	10	1	2	3	2		2			
COLL CONSERV OF MUS OF CINCN	1920-66																						
COLL CONSERV OF MUS OF CINCN	1960-66																						
MISERICORDIA COLLEGE PA	1920-66																						
MISERICORDIA COLLEGE PA	1960-66																						
COLORADO COLLEGE	1920-66	63	8	23	1		19	4	4	9	4	1		46	2	4	12	12		16			
COLORADO COLLEGE	1960-66	17	2	2	1		5	2	2	5	3			10			1	1		8			
COLORADO SCHOOL OF MINES	1920-66	118	1	6		1	5	2	2	63	42	6		1			1						
COLORADO SCHOOL OF MINES	1960-66	58	1	4		1	4	1	2	29	20	5											
COLORADO STATE COLLEGE	1920-66	17	3				13	4	3		1	1		44	17	3	9	3		12			
COLORADO STATE COLLEGE	1960-66	8	1				7	4	2					5			4			1			
COLORADO STATE UNIVERSITY	1920-66	79	10	13	2	3	35	12	6	1	20		4	293	135	27	45	47	6	33			
COLORADO STATE UNIVERSITY	1960-66	46	2	10	2	3	18	11	4	1	15		3	143	68	13	31	13	4	14			

Doctorates by Field																	Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION
2				2										1		1		4
														1				CHICAGO-KENT COLL OF LAW
																		1 CHICAGO THEOL SEMINARY
895 259	320 116	91 24	155 42	119 23	138 39	617 157	166 47	162 32	122 28	27 3	86 28	9 2	32 14	149 36	50 15	65 17	278 57	3594 853
11 7	6 5		1	1	1	8 3	5 2	2 1			1						49 14	CHICAGO, UNIVERSITY OF
1			1															CHICAGO STATE COLLEGE CAL
																		CHRISTIAN BROS COLLEGE TENN
						5 2	1				2 2			3 1		3 1	4 3	12 6
104 33	44 15	5 1	14 3	24 8	8 3	94 26	25 8	21 7	17 2	10 2	16 6	2 1	3	48 22	8 6	26 11	86 33	705 269
14 6	3		2	3 2	6 4	12 2	5 2	5 2						2 2		1 1	9 4	107 40
1058 463	694 306	23 9	88 33	149 57	67 34	491 138	149 43	119 48	119 22	17 1	50 8	15 7	16 8	124 23	38 17	30	611 148	4300 1462
2	1		1			1		1									4 1	CITY COLLEGE OF CITY U OF N Y
																		CLAFLIN COLLEGE S C
12 12	1 1			8 8	3 3	2 2	2 2							1 1			1 1	16 15
3 2	1 1			1 1		3 2	1 2										29 18	38 24
2			2			3			1 1				1 2			5 2	7 4	27 13
98 26	38 9	1	10 1	14 4	7 3	62 11	25 4	13 4	12 1		5 1	1 1	1 1			3 1	37 8	340 72
2 1			2 1			16 4	3 4	5 2	4 1	2 1	2						6 2	28 9
2 1	1 1			1		2 2		1 1		1 1				1 1			3 1	80 49
34 18			6 1	25 15	3 2	5 4	2 1	3 3						4 3	3 3		26 12	317 112
						3							3				3 1	6 1
8 3	6 2		1 1	1		2		1 1	1					1			4 2	50 23
33 3	12 2		7	10 1	3 1	14 1	3	3	2 1	1		2 1	3 1	5	3	1	39 10	171 32
						5 2	2 1	2 1		1								9 2
23 10	11 5	1 1	2 2	7 2	2	41 16	10 4	18 6	7 2	1 1	3 1		1 1	9 2	3 1	4 1	32 8	156 57
						1 1			1 1					2 2		2 2	2 1	5 2
67 24	27 11	1 1	6 2	14 1	14 7	66 21	21 7	13 7	19 2	2	8 4		1	12 5	3 1	6 3	57 15	323 98
						20 11							20 11				9 5	29 16
4	1			1	1	4 1		2 1	1		1			1 1			3 1	12 3
40 13	22 7	2 1	1 1	12 4	2	37 6	7 1	15 3	7 1		1	2 1	5	12 3	5 2	3	18 7	216 56
1				1													1 1	121 59
33 7	11 3	2	5	7 1	5 1	46 22	3 2	13 6	5		1	15 8	9 6	5 3	3 3	1	228 92	373 137
29 17	6 3		4 2	18 12	1	9 6	2 2				1	4 2	2 2	2 2	2 1		48 19	461 233

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM. BIOPHYS.	PHYSIOL. BIOSTATIST.	ANAT. CYTOL. ENTOMOL.	GENET. MICROBIOL.	ECOLOGY. HYDROBIOLOGY
COLORADO UNIVERSITY OF	1920-66	377	27	85	1	10	126	18	17	41	98	20	27	137	3	31	25	26	6	36	
COLUMBIA BIBLE UNIVERSITY S C	1960-66	144	15	41	1	10	25	8	11	22	41	11	17	39	2	8	9	5	3	12	
COLUMBIA COLLEGE ILL	1920-66	3					3		1				2							2	
COLUMBIA COLLEGE S C	1960-66																				
COLUMBIA THEOL SEMINARY GA	1920-66																				
COLUMBIA THEOL SEMINARY GA	1960-66																				
COLUMBIA UNION COLLEGE MO	1920-66	10	3	1			5	4			1	1	14			5	4			5	
COLUMBIA UNION COLLEGE MO	1960-66	4	1	1			2	2					6							2	
COLUMBIA UNIVERSITY N Y	1920-66	823	108	179	21	15	247	37	37	63	226	83	40	273	3	104	71	33	1	61	
COLUMBIA UNIVERSITY N Y	1960-66	316	49	61	19	12	79	28	23	23	104	30	25	83	1	38	22	14		8	
COLUMBIA UNIV TEACH COLL N Y	1920-66	18	2	6	2		6			3	1	1	4		2					2	
COLUMBIA UNIV TEACH COLL N Y	1960-66																				
CONCORD COLLEGE W VA	1920-66	6		1			3			2			12		1	2	5			4	
CONCORD COLLEGE W VA	1960-66	2		1						1			7		1	1	4			1	
CONCORDIA COLLEGE MINN	1920-66	39	10	16	1	2	12	2	5		1		25	1	1	6	7	1		9	
CONCORDIA COLLEGE MINN	1960-66	15	5	5		2	4	1	2		1		19	1	1	5	7	1		4	
CONCORDIA SEMINARY MO	1920-66	1					1						2							2	
CONCORDIA SEMINARY MO	1960-66																				
CONCORDIA SR COLLEGE INO	1920-66																				
CONCORDIA SR COLLEGE INO	1960-66																				
CONCORDIA TEACH COLLEGE ILL	1920-66	4	2	1		1	1	1					3		1	1				1	
CONCORDIA TEACH COLLEGE ILL	1960-66	2	1				1	1					2			1				1	
CONCORDIA TEACH COLLEGE NEBR	1920-66																				
CONCORDIA TEACH COLLEGE NEBR	1960-66																				
CONCORDIA THEOL SEMINARY ILL	1920-66	1		1																	
CONCORDIA THEOL SEMINARY ILL	1960-66																				
CONNECTICUT COLLEGE	1920-66	6	1				5		1				15		1	5	2	1	1	6	
CONNECTICUT COLLEGE	1960-66	1					1						2								
CONNECTICUT UNIVERSITY OF	1920-66	143	6	14		5	68	11	16	14	41		10	229	35	32	33	83	1	45	
CONNECTICUT UNIVERSITY OF	1960-66	85	4	10		5	32	11	11	9	30		7	75	15	9	13	23		15	
CONVERSE COLLEGE S C	1920-66																				
CONVERSE COLLEGE S C	1960-66																				
COOPER UNION N Y	1920-66	260	21	38	2	9	39	6	5	1	161	40	29	6		1	4	1			
COOPER UNION N Y	1960-66	140	9	16	2	7	10	5	3		105	27	20								
COPPIN STATE COLLEGE MO	1920-66																				
COPPIN STATE COLLEGE MO	1960-66																				
CORNELL COLLEGE IOWA	1920-66	83	12	13			43	9	4	11	4		1	31		1	20	3	1	6	
CORNELL COLLEGE IOWA	1960-66	14	1	1			5	1	1	7				12			8	1	1	2	
CORNELL UNIVERSITY N Y	1920-66	1047	100	230	17	32	346	66	49	78	293	52	47	902	207	71	159	217	21	207	
CORNELL UNIVERSITY N Y	1960-66	380	47	85	14	26	73	28	27	32	143	32	27	262	54	30	69	56	8	45	
CORPUS CHRISTI UNIVERSITY OF	1920-66																				
CORPUS CHRISTI UNIVERSITY OF	1960-66																				
CORTLAND SUNY COLL AT	1920-66	1									1		3			1	2				
CORTLAND SUNY COLL AT	1960-66	1									1		2				2				
CREIGHTON UNIV NEBR	1920-66	34	7	2			24	6	5		1		32		8	12	8			4	
CREIGHTON UNIV NEBR	1960-66	12	4	1			7	2	1				13		2	6	4			1	
CULVER-STOCKTON COLLEGE MO	1920-66	15	1	2			12	2					1							1	
CULVER-STOCKTON COLLEGE MO	1960-66	6	1	1			4	1													
CUMBERLAND COLL OF TENNESSEE	1920-66	1					1														
CUMBERLAND COLL OF TENNESSEE	1960-66																				
CURRY COLLEGE MASS	1920-66																				
CURRY COLLEGE MASS	1960-66																				
CURTIS INST OF MUSIC PA	1920-66																				
CURTIS INST OF MUSIC PA	1960-66																				
DAKOTA WESLEYAN UNIVERSITY S D	1920-66	18	1	1			15	5			1		6		1		3			2	
DAKOTA WESLEYAN UNIVERSITY S D	1960-66	1					1						1				1				

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		
204 92	74 36	12 7	24 8	56 24	21 11	138 47	45 14	37 12	25 5	2	9 5	10 4	9 6	38 27	26 21	3 2	112 54	1006 403	COLORADO UNIVERSITY OF
						3 3		1 1	2 2				1 1	1		1 2		6 5	COLUMBIA BIBLE UNIVERSITY S C
						1 1							1 1				1	7 1	COLUMBIA COLLEGE ILL
						4 1	2	2 1										4 1	COLUMBIA COLLEGE S C
1					1													1	COLUMBIA THEOL SEMINARY GA
	5 2	2 1	1 1		2	19 6	7 2	1	3	2	2	3 3	1 1	1 1		1 1	16 7	65 26	COLUMBIA UNION COLLEGE MD
463 177	187 79	40 15	40 10	112 34	64 32	592 196	147 47	160 68	127 35	19 6	89 16	6 3	40 20	88 16	33 8	22 3	489 49	2728 837	COLUMBIA UNIVERSITY N Y
23	13	1	3	5		20 5	1	8	4 1		2	2 1	3 3	3		1	138 45	206 50	COLUMBIA UNIV TEACH COLL N Y
6 4	1		1 1		4 3	8 4	4 1	3 2				1 1		1		1	16 9	49 26	CONCORD COLLEGE W VA
24 11	16 9		2	3 1	3 1	21 9	4 1	7 3	1			2 2	7 3	6 4	2 1	3 3	26 15	141 73	CONCORDIA COLLEGE MINN
18 9	8 4		7 3		2 1	56 23	14 6	8 4	12 2	16 7	4 2		2 2	13 7		13 7	17 10	107 49	CONCORDIA SEMINARY MO
														1 1		1 1		1 1	CONCORDIA SR COLLEGE IND
4	2				1	6 6	3 3						3 3				30 23	47 33	CONCORDIA TEACH COLLEGE ILL
4 3	2 2		1			8 7	4 3	3 3	1 1								10 9	22 19	CONCORDIA TEACH COLLEGE NEBR
						3 3	1 1		1		1			2 1		2 1		6 1	CONCORDIA THEOL SEMINARY ILL
13 5	10 4		1	1 1	1	11 2	1	2	5 1	1	2 1			1		1	4 1	50 11	CONNECTICUT COLLEGE
126 55	68 29	1	13 8	33 11	9 4	46 33	15 10	17 13	8 5		2 2	3 2	1 1	6 5	4 4	1	51 26	601 279	CONNECTICUT, UNIVFRSITY OF
1			1			4 1	1 1	1	1			1					6 3	11 4	CONVERSE COLLEGE S C
6 2	4 2			2										2 1	2 1			274 143	COOPER UNION N Y
																	1	1	COPPIN STATE COLLEGE MO
40 10	13 4	2 2	7 1	9 1	8 2	37 12	10 3	16 6	2 1		2	4	1 1	16 5	1 1	9 2	60 16	267 69	CORNELL COLLEGE IOWA
426 164	124 51	28 12	35 6	176 68	52 21	338 99	68 24	121 37	59 15	19 2	26 8	23 6	13 5	67 30	34 19	8 3	163 50	2943 985	CORNELL UNIVERSITY N Y
						2 2	2 2										7 5	9 7	CORPUS CHRISTI, UNIVFRSITY OF
3 3	1 1		2 2			5 5	1 1	2 2	1 1			1 1					60 33	72 44	CORTLAND, SUNY COLL AT
17 6	7 1		2 1	6 3	2 1	34 8	14 3	7 4	2	3	7 1			14 5	10 4	2	14 2	145 46	CREIGHTON UNIV NEBR
2	1			1		5		1			1	1	2	3 1		2	11 2	37 9	CULVER-STOCKTON COLLEGE MO
2			1		1	4		3	1								6 1	13 1	CUMBERLAND COLL OF TENNESSEE
						1 1						1 1					2 1	3 2	CURRY COLLEGE MASS
						6 3						6 3						6 3	CURTIS INST OF MUSIC PA
12 2	7 1		2 1	1	2	9 2	2	3 1				3 1	1	4 1		4 1	24 8	73 15	DAKOTA WESLEYAN UNIVERSITY S D

Appendix B
continued

Continued		Doctorates by Field																					
Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																					
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	C-organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOTATIST,	ANAT, CYTOL, ENTOMOL,	GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	
DALLAS UNIVERSITY OF	1920-66 1960-66	1		1		1																	
DANA COLLEGE NEBR	1920-66 1960-66	8 6	1				7 5	2 1	3 3				2			1					1		
DANBURY STATE COLLEGE CONN	1920-66 1960-66																						
DARTMOUTH COLLEGE N H	1920-66 1960-66	284 110	29 19	39 15	1 1	2 2	124 28	26 18	12 7	64 29	28 19	5 2	7 6	131 43	11 6	18 5	24 16	24 7	3 2	51 7			
DAVID LIPSCOMB COLLEGE TENN	1920-66 1960-66	12 8	2 1	2 1		1	8 6	3 2	3 3				5 4				1			4 3			
DAVIDSON COLLEGE N C	1920-66 1960-66	89 34	9 5	28 6		5 4	49 21	13 12	2 1		3 2		1 1	18 7		2	6 3	3 1	1 1	6 1			
DAVIS & ELKINS COLLEGE W VA	1920-66 1960-66	8 3	1	1			6 2	2 2						11 5	1	2	3 1	1		4 1			
DAYTON UNIVERSITY OF	1920-66 1960-66	107 58	23 12	13 6	2 2	2 1	30 13	6 5	4 2	4 3	37 24	11 7	7 7	21 6			9 4	8 1		4 1			
DEFIANCE COLLEGE OHIO	1920-66 1960-66	6 2	1	1 1			4 1	1 1					5 3		1		1	1		2 2			
DELAWARE STATE COLLEGE	1920-66 1960-66	1								1	1												
DELAWARE UNIVERSITY OF	1920-66 1960-66	95 50	7 3	9 6		3 2	42 16	17 12	4 3		37 25	19 12	2 2	63 34	28 12	2	7 6	15 10	1 1	10 5			
DELAWARE VAL COLL SCI AG PA	1920-66 1960-66	2					2							14 8			3 3						
DELTA STATE COLLEGE MISS	1920-66 1960-66	3 1	2				1 1						8 8		3	2 2	2 2			1 1			
DENISON UNIV OHIO	1920-66 1960-66	95 15	16 2	24 6		3 3	33 4	6 2	4 1	22 3			27 5	1	1	6 2	8 1	1	10 1				
DENVER UNIVERSITY OF	1920-66 1960-66	104 21	8 3	19 2		3	52 7	16 5	7 1	1 1	24 8	6 1	8 4	72 16	3 1	6 3	37 5	11 4	2 1	13 2			
DEPAUL UNIVERSITY ILL	1920-66 1960-66	70 33	14 7	16 10	1	2	39 15	14 6	6 6		1		21 8		1	8 4	5 3			7 1			
DEPAUL UNIVERSITY IND	1920-66 1960-66	197 40	12 7	41 10	1 1	6 3	110 13	24 10	7 3	28 7	6 3	1	2 1	124 18	7 2	9 1	35 8	16 2	1	56 4			
DETROIT BIBLE COLLEGE	1920-66 1960-66	1					1																
DETROIT INST OF MUSICAL ART	1920-66 1960-66																						
DETROIT INST OF TECHNOLOGY	1920-66 1960-66	6					4			2		1	2				1	1					
DETROIT UNIVERSITY OF	1920-66 1960-66	99 56	10 6	7 6	2 2	3 2	40 13	10 6	3 2		42 31	11 7	4 4	26 15	1 1	3 1	12 8	6 4		4 1			
DICKINSON COLLEGE PA	1920-66 1960-66	38 7	3 2	7 2			26 3	4 2		1	1		17 4	1	2 1	6 1	5 1		3 1				
DICKINSON STATE COLLEGE N D	1920-66 1960-66	1 1	1																				
DILLARD UNIVERSITY LA	1920-66 1960-66	7 4	1 1				6 3	1 1	2 2				4 1		1	1				2 1			
D C TEACHERS COLLEGE	1920-66 1960-66	6	2	2			2		1				5 2			1	1		3 1				
DIVINE WORD SEMINARY ILL	1920-66 1960-66	2 1		2 1		2 1																	
DIV SCH PROT EPIS CHURCH PA	1920-66 1960-66																						
DOANE COLLEGE NEBR	1920-66 1960-66	20 3		5 2		1 1	14 1	3 1	1 1				10 2	1		3 1				6 1			
DOMINICAN COLLEGE WISC	1920-66 1960-66	1	1																				
DOMIN COLL OF SAN RAFAEL CAL	1920-66 1960-66	1					1	1					1			1							

Doctorates by Field																	Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	
						2	1	1									3 DALLAS UNIVERSITY OF
3	2	1				4	1	2			1		2	1	1	6	25 DANA COLLEGE
3	2				1	3	1	1			1		1			7	17 NEBR
1	1															2	10 DANBURY STATE
203	66	9	26	44	50	257	84	77	53	7	18	3	10	42	22	9	997 DARTMOUTH
77	27	3	5	17	20	70	22	26	13	4	1	4	18	12	5	29	347 COLLEGE N H
5	5					23	5	6		2	10		6	1	4	14	65 DAVID LIPSCOMB
3	3					23	5	6		2	10		5	1	3	12	55 COLLEGE TENN
41	17	2	3	12	7	84	32	20	19	4	4	1	4	27	2	23	290 DAVIDSON
18	7	2	1	5	3	33	11	7	6	2	1	4	13	2	11	9	114 COLLEGE N C
7	2		2	1	2	3		2			1		2	2		7	38 DAVIS & ELKINS
2	1		1										1	1		2	13 COLLEGE W VA
22	7		7	4	3	40	9	13	6	3	7	1	8	2	5	27	225 DAYTON
5	2			1	2	18	7	4	4		2		2	1	1	13	102 UNIVERSITY OF
1			1			1	1									12	25 OFFIANCE
1				1												2	7 COLLEGE OHIO
																2	4 DELAWARE
																2	2 STATE COLLEGE
24	15	1	2	4	2	32	13	6	8		2	2	4	1	2	21	239 DELAWARE
12	10			2		8	5	1	1		1		2		1	11	117 UNIVERSITY OF
																	16 DELAWARE VAL
1						1	8	3	4				1	1		11	16 COLL SCI AG PA
						4	2	1					1			5	32 DELTA STATE
80	40	1	12	11	10	60	18	18	5	3	2	11	2	12	2	9	20 COLLEGE MISS
30	16	1	4	4	4	23	9	5				8	3	3	1	9	308 DENISON
139	76	9	11	18	16	83	15	26	5	2	2	27	4	34	20	10	85 UNIV OHIO
56	27	3	5	9	5	24	6	4	1	1	1	11	4	13	11	63	589 DENVER
																	193 UNIVERSITY OF
31	9	1	3	9	3	55	9	20	5	3	6	3	6	16	10	4	227 DEPAUL
13	2		2	5	2	17	4	9			1	2	4	4		13	88 UNIVERSITY ILL
129	67	2	17	20	20	124	33	36	15	6	11	17	6	39	6	27	689 DEPAUL
48	32		1	7	7	28	6	11	3		2	3	3	14	3	19	167 UNIVERSITY IND
																	1 DETROIT BIBLE
																	1 COLLEGE
																	3 DETROIT INST
																	1 OF MUSICAL ART
2	2					1		1					1				12 DETROIT INST
2	2																5 OF TECHNOLOGY
25	14		3	4	4	39	7	20			8	2	1	13	9	2	223 DETROIT
13	7		1	3	2	24	2	14			5	2	1	10	9	12	130 UNIVERSITY OF
36	17	1	7	2	9	62	17	19	15	2	6		1	12	1	9	214 DICKINSON
7	4				3	12	5	2	4		1			1		49	40 COLLEGE PA
4	1		1	1	1											11	16 DICKINSON STATE
1																6	8 COLLEGE N D
5	1		3			3		1			2		1	1	1	5	25 DILLARD
1			1													4	12 UNIVERSITY LA
1	1					3		3					1	1		28	44 D C TEACHERS
						1		1					1	1		11	15 COLLEGE
2	1	1				2		1			1		1		1	1	8 DIVINE WORD
2	1												1		1		6 SEMINARY ILL
1	1													1			2 DIV SCH PROT
																	EPIS CHURCH PA
22	7		3	11	1	9	6	2			1		2		1	14	77 ODALE
3	1		1	1		5	2	2					1				23 COLLEGE NFBK
																	2 DOMINICAN
																	1 COLLEGE WISC
						7	2	4	1				1		1	1	11 DOMIN COLL OF
						4		1					1				6 SAN RAFAEL CAL

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																	
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM. BIOPHYS.	ANAT. CYTOL. ENTOMOL. GENET. MICROBIOL. EMBRYOL.	ECOLOGY. HYDROBIOLOGY BOT. ZOOL. GEN BIOL
DON BOSCO COLLEGE N J	1920-66 1960-66													1			1		
DOUGLASS COLLEGE N J	1920-66 1960-66	10 5	3 1				7 4	2 2	1 1				12 2	2		3 1	3 1		4
DOWNSTATE MED CENTER N Y	1920-66 1960-66												4 3		3 3				1 1
DRAKE UNIV IOWA	1920-66 1960-66	26 4	4 1	6 1			15 3	1 1	1 1	1 1		33 9		10 4	12 4	4 1			7
DREW UNIVERSITY N J	1920-66 1960-66	44 16	4 3	7 1			32 11	6 4	5 4	1 1		29 12	3		8 3	3 3			15 6
DREXEL INST OF TECHNOLOGY PA	1920-66 1960-66	158 107		20 14	3 3	5 4	32 16	12 10	7 5	1 1	105 69	25 14	17 12	4 1	1	2 1	1		
DROPSIE COLLEGE PA	1920-66 1960-66																		
DRURY COLLEGE MO	1920-66 1960-66	29 5	4 2	5			12 1	3		6 1	2 1		16 4	2		6 3	3 1		5
DUBUQUE UNIVERSITY OF	1920-66 1960-66	10 2		1			9 2	3 1	1				13 8		2 2	5 5	3 1		3
DUCHESNE COL OF SACRED MT NEBR	1920-66 1960-66	3 1					3 1	1											
DUKE UNIVERSITY N CAR	1920-66 1960-66	207 91	24 10	49 18	3 1	3 3	84 28	23 15	13 8	10 7	40 28	1 1	11 7	83 33	9 4	3 1	27 11	18 10	26 7
DUNBARTON COLL OF HOLY CR D C	1920-66 1960-66	2					2		1										
DUNS SCOTIUS COLLEGE MICH	1920-66 1960-66																		
DUQUESNE UNIVERSITY PA	1920-66 1960-66	49 20	6 2	2 2	1 1		40 16	11 6	6 4	1			29 15	1 1	15 8	6 4	3 2		4 1
DYDUVILLE COLLEGE N Y	1920-66 1960-66	2 1					2 1		1 1				3 2			2 1	1 1		
EARLHAM COLLEGE IND	1920-66 1960-66	44 15	4 2	12 2	1 1		24 9	8 5	4 3	4 2			54 18	2 1	4 2	8 3	10 3	3 3	27 6
EAST CAROLINA COLLEGE N C	1920-66 1960-66	5 5	1 1				4 4		2 2				8 6	1		1 1	1 1	2 2	3 2
EAST CENTRAL STATE COL OKLA	1920-66 1960-66	2 2	1 1				1 1						10 6			2 2			6 4
E STRIDERSBURG STATE COLL PA	1920-66 1960-66												6 5	2 2		1 1	1 1	1 1	
EAST TENNESSEE STATE UNIV	1920-66 1960-66	16 7	2 1	1			13 6	1 1	4 4				7 4			4 2	1 1		2 1
EAST TEXAS BAPTIST COLL	1920-66 1960-66	3 3	1 1				2 2	1 1					1 1			1 1			
EAST TEXAS STATE UNIV	1920-66 1960-66	27 16	4 2	5 4	3 3		18 10	5 5	4 3				8 2	2 1	1	2 1	1		2 1
EASTERN BAPTIST COLLEGE PA	1920-66 1960-66																		
EASTERN BAPT THEOL SEMIN PA	1920-66 1960-66																		
EASTERN ILL UNIVERSITY	1920-66 1960-66	25 13	6 3	4 3	1 1		13 6	2 2	2 2	2 1			45 18	9 4		1 1	5 1	3 3	27 10
EASTERN KEN- TUCKY ST COLL	1920-66 1960-66	25 13	3 3	1			20 10	7 5	7 5		1		1 1	16 6	4 1	1 1	4 3	2	5
EASTERN MICHIGAN UNIV	1920-66 1960-66	36 2	2 1	7 1	1 1		23 1	2 1	3 1	2 1	2 2		20 2	1 1	3	1 1	6 1		9 1
EASTERN MENNONITE C VA	1920-66 1960-66												2 1	1					1 1
EASTERN MONTANA COLLEGE	1920-66 1960-66	1 1	1 1										1 1						1 1
EASTERN NAZA- RENE COLL MASS	1920-66 1960-66	14 9	1 1				12 7	1 1	4 4		1		3 3			2 1	1		2 2

Doctorates by Field															Institution of Baccalaureate			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS		BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
15 9	10 6	1		2 1	12 2	2 1	4 3	4 3	1 1	2 1		1 1	2 1	2 1	1 1	8 5	60 31	DON BOSCO COLLEGE N J
57 19	23 11	14 2	15 6	38 9	6 1	10 2	3 1	4 1	3 1	5 1	7 3	18 5	3 2	10 2	76 38	248 84	DRAKE UNIV IOWA	
25 9	17 4	1	4 3	22 10	8 2	7 4	5 3		2 1			10 3	1 1	9 2	15 3	145 53	DREW UNIVERSITY N J	
6 3	1 1	1 1	4 1	3 1	1 1	1 1						6 4	4 2		8 3	185 112	DREXEL INST OF TECHNOLOGY PA	
19 10	4 3		7 3	23 7	7 2	4 1	4 1		3 1	3 2		11 4	5 2	6 2	30 9	128 39	DRURY COLLEGE MO	
17 3	8 1	5	2 2	13 3	6 1	1 1	3 1		3 1			6 1		6 1	13 6	72 23	DUPONTE, UNIVERSITY OF	
2 1		1		8 1	3 1	4 1			1 1						5 2	18 4	DUCHESNE COL OF SACRED MT NEBR	
122 55	51 30	4 2	10 3	33 12	21 6	136 53	45 16	48 22	21 12	6 1	9 2	3 2	44 22	5 4	24 18	78 35	670 289	DUKE UNIVERSITY N CAR
3 2		1		7 3	3 2			1 1	2 1	1 1		7 2		7 2	1 1	18 5	DUNS SCOTUS COLLEGE MICH	
29 14	13 5	2 2	8 2	4 4	31 11	4 1	14 6	3 1	6 1	2 1	1 1	4 2	2 2	2 2	47 19	189 81	DUQUESNE UNIVERSITY PA	
2 1		1		14 4	5 1	1 1	3 1	2 1	2 1			1 1		1 1	5 2	27 9	DYONVILLE COLLEGE N Y	
37 14	10 4	5 2	5 2	5 1	53 16	19 4	13 6	5 1	3 2	4 1	7 3	2 1	4 1	1 1	2 1	19 8	211 71	EARLHAM COLLEGE INO
4 2	2 1			4 2	2 2						1 1	1 1	1 1		35 24	57 41	EAST CAROLINA COLLEGE N C	
3 1				2 4	12 4	4 2					4 1	2 1			44 22	71 34	EAST CENTRAL STATE COL OKLA	
4 2	1 1			2 1	1 1	1 1									43 20	54 27	E STRAUSSBURG STATE COLL PA	
6 3			2 2	2 5	10 3	5 3	2 1				2 1	1 1		1 1	41 25	81 44	EAST TENNESSEE STATE UNIV	
2 2	2 2														4 3	10 0	EAST TEXAS BAPTIST COLL	
10 3	4 2	2 1	2 1	28 6	7 1	14 2	4 2				3 1		5 2	3 2	80 36	158 65	EAST TEXAS STATE UNIV	
3 3	2 2	1 1		2 2		1 1		1 1				1 1		1 1	3 1	9 7	EASTERN BAPTIST COLLEGE PA	
1 1				1 3	2 2	1 1		1 1				4 1		4 1	5 2	13 3	EASTERN BAPT THEOL SEMIN PA	
15 3		1 1	4 1	5 16	33 16	5 1	8 3	4 3			11 7	5 2	5 3	3 1	62 26	185 79	EASTERN ILL UNIVERSITY	
2 2			2 2	7 2	2 2	4 2					1 1		5 1	2 1	44 20	99 42	EASTERN KEN- TUCKY ST COLL	
21 8	9 2	1 1	4 3	1 1	22 5	6 1	5 1	2 1		1 1	8 4		1 1	1 1	128 51	228 69	EASTERN MICHIGAN UNIV	
2 2			2 2										1 1		7 7	12 11	EASTERN MENNONITE C VA	
															2 2	4 4	EASTERN MONTANA COLLEGE	
5 5	1 1		3 3	1 1	13 6	5 3	2 2			3 3	3 1		5 3		5 3	7 5	49 31	EASTERN NAZA- RENE COLL MASS

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
EASTERN NEW MEXICO UNIV	1920-66 1960-66	9 6	3 3				6 3	2 2	2 1				3 2			2 1	1 1				
EASTERN OREGON COLLEGE	1920-66 1960-66																				
EASTERN WASH STATE COLLEGE	1920-66 1960-66	3 1	1 1				2 1		1 1				8 5	1 1		1 1	2 2			4 1	
EDEN THEOL SEMINARY MO	1920-66 1960-66																				
EDGEWOOD COL OF SACRED HT WISC	1920-66 1960-66												1 1							1 1	
EDINBORO STATE COLL PA	1920-66 1960-66	3 2	1 1				2 2	1 1	1 1				4 2	1 1		1 1	1 1			1 1	
ELIZABETH CITY STATE COLL N C	1920-66 1960-66	1 1					1 1														
ELIZABETHTOWN COLLEGE PA	1920-66 1960-66	13 7		2 1	1 1	11 6	4 1						5 2		3 2	1 1			1 1		
ELLENDALE STATE TEACH COLL N D	1920-66 1960-66																				
ELMHURST COLLEGE ILL	1920-66 1960-66	10 2	1 1				9 1	2 1	2 2				17 11	2 1		5 3	5 3			5 4	
ELMIRA COLLEGE N Y	1920-66 1960-66	2 2					2 1						5 1			3 1	2 2				
ELON COLLEGE N CAR	1920-66 1960-66	6 2		2 1			3 1	1 1	1 1	1 1			6 1	1 1		1 1				4 1	
EMERSON COLLEGE MASS	1920-66 1960-66																				
EMMANUEL COLLEGE MASS	1920-66 1960-66	10 3	5 1				5 2	2 1	1 1				7 3		1 1	2 1		1 1	3 1		
EMORY AND HENRY COLLEGE VA	1920-66 1960-66	22 6	1 1	6 1			14 5	3 2	4 3	1 1			5 2	1 1			2 2		2 2		
EMORY UNIVERSITY GA	1920-66 1960-66	157 42	9 4	19 6			112 25	28 16	9 6	12 5	5 2	1 1	88 21	3 1	7 3	18 3	20 8	3 2	37 4		
EMPORIA, COLL OF, KAN	1920-66 1960-66	11 11	2 2	5 5			4 4						5 5		1 1	2 2	1 1		1 1		
EPISCOPAL THEOL SCHOOL MASS	1920-66 1960-66																				
ERSKINE COLLEGE S C	1920-66 1960-66	14 3	1 1				12 3	3 2		1 1			3 1		1 1	2 1					
EUREKA COLLEGE ILL	1920-66 1960-66	7 1	1 1				6 1	1 1					3 1		1 1	2 2					
EVANSVILLE COLLEGE IND	1920-66 1960-66	29 11	2 1	3 1			20 6	4 2	3 2		4 4		2 2	9 6		1 1	3 2	2 1	1 1	2 2	
FAIRFIELD UNIV CONN	1920-66 1960-66	14 12	1 1	5 4	1 1		7 6	5 5			1 1		6 3			4 2	2 1				
FAIRLEIGH DICKINSON UNIV N J	1920-66 1960-66	14 14	2 2	1 1			9 9	7 7	1 1		2 2		2 2	5 5		1 1	3 3	1 1			
FAIRMONT STATE COLLEGE W VA	1920-66 1960-66	8 3	1 1	5 2		1 1	2 1	1 1					8 1	4 1	1 1					3 3	
FAITH THEOL SEMINARY PA	1920-66 1960-66																				
FARMINGTON STATE COLL ME	1920-66 1960-66																				
FAYETTEVILLE STATE COLL N C	1920-66 1960-66																				
FERRIS STATE COLLEGE MICH	1920-66 1960-66	2 1					2 1						7 6		6 5	1 1					
FINDLAY COLLEGE OHIO	1920-66 1960-66	3 3	1 1				2 2	1 1													
FISS UNIVERSITY TENN	1920-66 1960-66	16 11	4 4	5 3	2 2	1 1	7 4	4 3	1 1				10 3		1 1		4 1			5 2	

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
2	1			1	3	3	2	1			1	2					13	36	EASTERN NEW MEXICO UNIV
																	14	14	EASTERN OREGON COLLEGE
10	2	3	2	1	7	1	1		1		3	1					47	75	EASTERN WASH STATE COLLEGE
3	1	1			3			1						3	3		25	37	EDEN THEOL SEMINARY MD
					2		1			1							1	4	EDGEWOOD COL OF SACRED HT WISC
3			2		6	1	1				3	1					41	57	EDINBORO STATE COLL PA
1					2						2						21	28	ELIZABETH CITY STATE COLL N C
7	2	4		1	6	1		4	1				5		4		2	3	ELIZABETH TOWN COLLEGE PA
3	2				2	1		1					1		1		5	20	ELLENDALE STATE TEACH COLL N D
1	1																10	5	ELMHURST COLLEGE ILL
11	5	4	4	1	12	5	4	2			1		14		14		9	73	ELMHURST COLLEGE ILL
5	4		1		6	3	1	2					6		6		3	33	ELMIRA COLLEGE N Y
4	3	1			7		4	2			1						11	29	ELON COLLEGE N CAR
1	1				2	1	2	1	1	1			3	1	2		15	36	EMERSON COLLEGE MASS
1	1				1		1										6	29	EMMANUEL COLLEGE MASS
2	1	1			17	4	11	1	1				1		1		9	46	EMORY AND HENRY COLLEGE VA
2	1	1			8	2	6										6	22	EMORY AND HENRY COLLEGE VA
16	4	3	5	3	20	8	10	2					5		5		17	85	EMORY AND HENRY COLLEGE VA
1	1				3	1	2						1		1		7	20	EMORY UNIVERSITY GA
83	43	1	10	7	19	132	36	30	35	3	20	2	3	24	2	18	37	521	EMORY UNIVERSITY GA
42	23		3	5	10	42	11	7	10		12	1		9	1	7	18	174	EMPORIA, COLL OF, KAN
9	5				1	16	8	3	1		2		2	5	1	2	23	69	EPISCOPAL THEOL SCHOOL MASS
1		1				2	2											2	EPISCOPAL THEOL SCHOOL MASS
3		1	1	1	15	4	6	4					4		2		13	52	ERSKINE COLLEGE S C
3	2		1		10	3	3	1	1		2		4		3		10	37	EURFKA COLLEGE ILL
1	1				1						1						5	8	EVANSVILLE COLLEGE INO
10	5	3	1	1	7	2	2			1	2		6	3	4		22	85	FAIRFIELD UNIV CONN
5	5				4	1	1						2	1	1		11	39	FAIRFIELD UNIV CONN
2	1			1	4		3	1									5	26	FAIRFIELD UNIV CONN
2	1				4		3	1									5	26	FAIRFIELD UNIV CONN
1				1	2	1	1										3	24	FAIRFIELD UNIV CONN
1					2	1	1										3	24	FAIRFIELD UNIV CONN
2	1	1			11	2	1	1	1		6		1	1			18	48	FAIRMONT STATE COLLEGE W VA
1					6	1		1			4						5	16	FAIRMONT STATE COLLEGE W VA
					1			1										1	FAITH THEOL SEMINARY PA

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL, EMBRYOL	
FITCHBURG, STATE COLL AT, MASS	1920-66 1960-66												2				1		1		
FLORENCE STATE COLLEGE ALA	1920-66 1960-66	5 2					5 2	1 1	4 1				6 5	1 1	2 1	1 1	1 1		1 1		
FLORIDA AGRIC AND MECH UNIV	1920-66 1960-66	2 2					2 2		1 1				5 3	3 2	1 1				1 1		
FLORIDA SOUTH- ERN COLLEGE	1920-66 1960-66	20 4	2 1	1			17 3	2					9 4	1 1	2 1		3 2	1 1	2 2		
FLORIDA STATE UNIVERSITY	1920-66 1960-66	27 18	7 5	6 6	2 2		9 3	3 1		4 3	1 1		26 13		2	6 4	8 6		10 3		
FLORIDA, UNIVERSITY OF	1920-66 1960-66	276 133	35 13	46 28	6 5	7 7	119 31	18 11	14 16	7 4	69 57	16 12	22 19	216 72	80 29	27 4	25 12	40 15	4 2	40 10	
FONTRONNE COLLEGE MO	1920-66 1960-66	5 2	1				4 2	1 1					1 1			1 1					
FORDHAM UNIVERSITY N Y	1920-66 1960-66	181 89	18 13	32 21	3 3	6 5	124 51	58 28	19 12	2 1	5 3	2 2		98 29	2 2	19 12	34 6	18 6		25 3	
FORESTRY, C OF, AT SYRACUSE	1920-66 1960-66	13 8		1			12 8	5 5	6 5					46 29	24 13		2 2	11 9	1 1	8 5	
FORT HAYS KANSAS ST COLL	1920-66 1960-66	25 8	5 1	3			17 7	5 4	2 1					27 13	8 5	1 1	4 2	2 1	2 1	10 3	
FORT VALLEY STATE COLL GA	1920-66 1960-66																				
FORT WAYNE BIBLE COLLEGE	1920-66 1960-66																				
FT WRIGHT C OF HOLY NMS WASH	1920-66 1960-66													1 1				1 1			
FRAMINGHAM, ST COL AT, MASS	1920-66 1960-66													4 1		1 1	3 1				
FRANKLIN & MAR- SHALL COLL PA	1920-66 1960-66	179 63	8 3	26 9	2 1	4 3	116 31	21 14	12 9	26 19	3 1	1		48 15	2	4	17 7	12 3		13 5	
FRANKLIN COLL OF INDIANA	1920-66 1960-66	14 1	1	3			10 1	3 1						7 2			1 1	2		4 2	
FRANKLIN UNIV OHIO	1920-66 1960-66	1					1														
FREDONIA, SUNY COLL AT	1920-66 1960-66													1 1				1 1			
FREE WILL BAPT BIBLE COL TENN	1920-66 1960-66																				
FRESNO STATE COLLEGE CAL	1920-66 1960-66	53 33	7 4	12 7		1 1	29 20	10 9	4 4	5 2				30 16	4 3	1	6 5	8 5		11 3	
FRIENDS UNIVERSITY KAN	1920-66 1960-66	16 5	1 1	10 2		1 1	5 2		1 1					9 3			1 1	4		4 2	
FROSTBURG STATE COLLEGE MO	1920-66 1960-66	1 1	1 1											1 1			1 1				
FULLER THEOLOG SEMINARY CAL	1920-66 1960-66	1					1														
FURMAN UNIVERSITY S C	1920-66 1960-66	38 11	2	12 3		1 1	23 8	3 3	5 4	1				23 6		1 1	4 2	4 1		14 2	
GALLAUDET COLLEGE D C	1920-66 1960-66																				
GANNON COLLEGE PA	1920-66 1960-66	8 4	1 1				7 3	2 1	2 2					1			1				
GARRETT BIB- LICAL INST ILL	1920-66 1960-66																				
GENERAL BEADLE STATE COLL S D	1920-66 1960-66	2					2														
GENERAL MOTORS INSTITUTE MICH	1920-66 1960-66	16 16	1 1										15 15								
GENERAL THEOLOG SEMINARY N Y	1920-66 1960-66																				

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		
1					2	1					1					39		44	FITCHBURG STATE COLL AT, MASS
2				2	3	3										17		33	FLORENCE STATE COLLEGE ALA
6			2	2	2	1	1						3			17		34	FLORIDA AGRIC AND MECH UNIV
4	1		1	1	3	15	4	2	3	5		2	1	5		5	22	79	FLORIDA SOUTH-ERN COLLEGE
49	29	2	9	7	7	47	12	11	11	1	3	5	4	10	4	2	94	279	FLORIDA STATE UNIVERSITY
161	78	3	14	38	26	87	24	33	9	2	4	11	3	16	9	4	160	916	FLORIDA UNIVERSITY OF
70	32	2	3	15	18	33	10	10	2	2	2	1	3	9	6	3	168	393	
1	1					11	2	3		2	2		1	2		2	5	25	FONTBONNE COLLEGE MO
125	71	1	10	21	21	171	33	34	26	18	49	2	1	16	2	4	104	695	FORHAM UNIVERSITY N Y
50	28				4	50	11	14	5	8	9	1	1	4	1	3	33	255	
3				1										1	1		1	64	FORESTRY, C OF, AT SYRACUSE
2														1	1			41	
35	19		3	5	7	15	6	3			1	3	2	2	1	1	46	150	FORT HAYS KANSAS ST COLL
5	2			2	1	10	6	2			1	1		1			21	58	
1																			
1																	9	10	FORT VALLEY STATE COLL GA
						1	1										8	9	

Appendix B
continued

Continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	
GENESEE, SUNY COLL AT	1920-66 1960-66	2	1				1	1													
GENEVA COLLEGE PA	1920-66 1960-66	41 19	5 4	7 1	1 1		27 13	6 5	4 1	2 1		1 1	17 4	1 1	1	4 2	3			8 1	
GEORGE FOX COLLEGE OREG	1920-66 1960-66	1								1			1 1				1 1				
GEO PEARBODY COL FOR TEACH TENN	1920-66 1960-66	6 1	1				5 1		1 1				22 9	2 1	1	6 3	1			12 5	
GEO WASHINGTON UNIVERSITY D C	1920-66 1960-66	165 43	17 7	34 11	2 1	7 4	86 13	4 1	11 6	9 2	19 10	4 3	139 30	5 1	26 3	39 14	27 7			42 5	
GEORGE WILLIAMS COLLEGE ILL	1920-66 1960-66	4		2			1		1	1			5 1			2	1 1			2	
GEORGETOWN COLLEGE KY	1920-66 1960-66	28 8	9 3	6 3			13 2	2 2	2 2				3		1	1	1				
GEORGETOWN UNIVERSITY D C	1920-66 1960-66	43 18	8 5	10 5	1 1		21 7	3 2	3 2	2 1	2		26 8		4	12 5	5 2			5 1	
GEORGIA INST OF TECHNOLOGY	1920-66 1960-66	338 185	18 13	64 38	3 3	9 7	69 25	19 14	9 5	5 3	182 106	63 33	27 15	10 5		7 5	1 1	1		1	
WOMANS COLL OF GEORGIA	1920-66 1960-66	4 1	2				2 1		1 1				4				4				
GEORGIA STATE COLLEGE	1920-66 1960-66	1 1					1 1						1 1				1 1				
GEORGIA SOUTH- ERN COLLEGE	1920-66 1960-66	1	1										9 6		1	2 2	2 2			4 2	
GEORGIA, UNIVERSITY OF	1920-66 1960-66	100 37	11 4	20 7	1 1	2 2	55 16	9 7	3 1	5 3	9 7		181 77	82 36	24 14	10 5	30 15	2 2		33 5	
GEORGIAN COURT COLLEGE N J	1920-66 1960-66	2	1				1						1			1					
GETTYSBURG COLLEGE PA	1920-66 1960-66	71 22	7 1	15 8		3 3	45 12	17 9	3 2	1	3 1	1	28 10	3 2	3 1	9 4	6 2			7 1	
GLASSBORO STATE COLLEGE N J	1920-66 1960-66	1 1	1										1 1	1 1							
GLENVILLE STATE COLLEGE W VA	1920-66 1960-66	4 4					3 3		2 2		1 1		9 4	2 1	1 1	1 1	3 1			2	
GOODARD COLLEGE VT	1920-66 1960-66																				
GOLDEN GATE COLLEGE CAL	1920-66 1960-66																				
GONZAGA UNIV WASH	1920-66 1960-66	40 16	4 1	6 3	1 1	2 2	19 4	2 1		1	10 8	6 5	1 1	9 5		1 1	5 4			3	
GOOD COUNSEL COLLEGE N Y	1920-66 1960-66												1 1							1 1	
GORDON COLLEGE MASS	1920-66 1960-66																				
GORHAM STATE COLL ME	1920-66 1960-66																				
GOSHEN COLLEGE IND	1920-66 1960-66	20 10	2 1	5 3	1 1		11 5	5 3	2 2		2 1	1	21 7	3 2	1	5 4	1 1	1 1		10	
GOUCHER COLLEGE MD	1920-66 1960-66	34 2	8	9 1			17 1	1	2 1				59 5		2 1	23 2	13 1			21 1	
GRACE BIBLE INSTITUTE NEBR	1920-66 1960-66																				
GRACELAND COLLEGE IOWA	1920-66 1960-66																				
GRAMBLING COLLEGE LA	1920-66 1960-66	1 1					1 1														
GRAND CANYON COLLEGE ARIZ	1920-66 1960-66																				
GREAT FALLS, COLL OF, MONT	1920-66 1960-66	4 3	1				3 2	2 1	1 1				2 2		1 1		1 1				

Doctorates by Field																			Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	
41	23	12				43					54						2818	3822	GENESSEE STATE COLLEGE AT
213	152			4	214	4	52	1			4		53	3	44	142	45	142	GENEVA COLLEGE PA
2		1		1	3	1		1					2		1	3	2	12	GEORGE FOX COLLEGE OREG
367	214		1	3	1	4510	101	153	72	2	11	41	62	3		13134	243	61	GEO PEARBODY COL FOR TEACH TENN
16956	8126	41	43	3913	3712	11334	4511	255	135	1	156	94	33	3610	148	3	6526	687199	GEO WASHINGTON UNIVERSITY D C
72	4				21			11									198	3612	GEORGE WILLIAMS COLLEGE ILL
152	3		2	5	42	225	31	61	4	1	2	63		52	21	31	219	9426	GEORGETOWN COLLEGE KY
5321	41		1	197	2813	8934	3712	197	1411	5	133	11		185	21	1	104	23990	GEORGETOWN UNIVERSITY D C
2411	85			124	22	84	1	11	11		42			107	76	1	114	401216	GEORGIA INST OF TECHNOLOGY
2			1	1		4	2		1			1		42			187	3610	WOMANS COLL OF GEORGIA
2				2										11	1		43	98	GEORGIA STATE COLLEGE
31		2	1		147	64	61	11			11			11	1		4321	7135	GEORGIA SOUTHERN COLLEGE
8741	3820		124	249	84	6727	2310	215	94	2	54		54	2916	128	51	9548	559246	GEORGIA UNIVERSITY OF
						43	11	11	11		1			2		2	61	154	GEORGIAN COURT COLLEGE N J
3613	2010		31	3	92	4512	153	134	51	42	62	2		204	1	184	3913	23974	GETTYSBURG COLLEGE PA
2	1			1		32	2	1									3414	4118	GLASSBORO STATE COLLEGE N J
1			1			65	1	33				2		1			258	4621	GLENVILLE STATE COLLEGE W VA
33	11		11	1													21	54	GOODARD COLLEGE VT
						11						1					21	32	GOLDEN GATE COLLEGE CAL
3512	158	11	71	5	72	7117	276	197	4	52	152			106	11	64	175	18261	GONZAGA UNIV WASH
1				1		51	1	21		1	1						31	103	GOOD COUNSEL COLLEGE N Y
73	32		3			187	65		1	2	81	11		124		124	94	4618	GORDON COLLEGE MASS
11						32	21	11									147	1810	GORHAM STATE COLL ME
113	2		62	2		2511	103	41	42			53	22	85		74	2513	11049	GOSHEN COLLEGE IND
308	142	21	41	42	41	459	122	102	122	6	11	21	21	1		1	201	18925	GOUCHER COLLEGE MO
																	11	11	GRACE BIBLE INSTITUTE NEBR
11	1																	11	GRACELAND COLLEGE IOWA
																	31	41	GRAMBLING COLLEGE LA
11	1																11	22	GRAND CANYON COLLEGE ARIZ
22	2					55	11	22			22		11		11		75	2118	GREAT FALLS, COLL OF, MONT

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL. BIOTATIST.	ANAT. CYTOL. ENTOMOL. GENET. MICROBIOL.	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
GREENSBORO COLLEGE N C	1920-66 1960-66	1					1		1					2							
GREENVILLE COLLEGE ILL	1920-66 1960-66	17 2	2 1	4 1	2 1	11 3								20 5	1 1	1 1	4 1	1 1		13 1	
GRINNELL COLLEGE IOWA	1920-66 1960-66	90 32	7 1	15 9	2 1	5 5	62 19	19 10	10 4		6 3	1 1	1 1	39 18		6 3	8 4	8 5	1 1	16 5	
GROVE CITY COLLEGE PA	1920-66 1960-66	45 11	7 3				29 8	4 3	4 3		7 2	2 1	14 4		1 2	2 1	2 1	1 1		9 1	
GUILFORD COLLEGE N C	1920-66 1960-66	21 4	3 3	8 3	1 1		10 1	1						11 4	2	2 1	3 2			4 1	
GUSTAVUS ADOLPHUS COLL MINN	1920-66 1960-66	18 9	1	1			15 9	6 6	5 2	1				27 9	1	6 1	9 6	1		10 2	
HAHNEMANN MED COLL & HOSP PA	1920-66 1960-66													2	1					1	
HAMILTON COLLEGE N Y	1920-66 1960-66	68 18	14 3	8 2			34 8	8 4	7 1	10 4	2 1	1 1	1 1	30 10	4 3	14 5	5 5			7 2	
HAMLIN UNIV MINN	1920-66 1960-66	42 14	1	7 5	1		32 8	18 8	1	1	1			16 6	1 1	5 2	5 3	3 1		2	
HAMPOEN COLL OF PHARMACY MASS	1920-66 1960-66													1 1			1 1				
HAMPOEN-SYDNEY COLLEGE VA	1920-66 1960-66	32 5	3 1	11 1		1 1	18 3	4 3	1					9	1		1			7	
HAMPTON INSTITUTE VA	1920-66 1960-66	4 2		1 1	1 1		3 1	1 1						16 4	8 1	2	1 1	3 2		2	
HANOVER COLLEGE IND	1920-66 1960-66	30 8	5 3	2 1			17 2	3 1		5 2	1			15 7			4 2	3 1	1 1	7 4	
HARDIN-SIMMONS UNIVERSITY TEX	1920-66 1960-66	12 4	4 3	1			4 1	1		3 1				9 2	1		5 2	3			
HARFING COLLEGE ARK	1920-66 1960-66	11 6					11 6	4 4	3 2					11 4	1		4 3	4 1	1 1	1	
HARRIS TEACHERS COLLEGE MO	1920-66 1960-66	2	2											4 2						4 2	
HARTFORD UNIVERSITY OF	1920-66 1960-66	1 1	1 1																		
HARTT COLLEGE OF MUSIC CONN	1920-66 1960-66																				
HARTFORD SEM FOUNDATN CONN	1920-66 1960-66																				
HARTWICK COLLEGE N Y	1920-66 1960-66	9 4	1	1			7 4	4 3	1 1					10 6	1 1		3 2	3 2		3 1	
HARVARD UNIV MASS	1920-66 1960-66	1192 376	214 100	399 122	26 24	39 25	370 84	58 39	48 27	126 57	83 33	7 2	17 9	338 103	11 4	32 8	119 51	43 20	3 1	130 19	
HARVEY MUDD COLLEGE CAL	1920-66 1960-66	6 6	2 2				3 3	1 1			1 1										
HASTINGS COLLEGE NEBR	1920-66 1960-66	34 11	4 2	10 1		1 1	19 7	9 5	2 2		1 1			12 4	2		4 1	1 1		5 3	
HAVERFORD COLLEGE PA	1920-66 1960-66	146 39	23 4	33 13			78 20	15 8	12 6	8 2	4 1			45 18	3 1	5 2	17 10	5 2		15 3	
HAWAII UNIVERSITY OF	1920-66 1960-66	44 20	2 2	5 3			30 11	9 6	2 1	2 1	5 3			80 36	17 11	2	20 9	27 13		14 3	
HEBREW TEACHERS COLLEGE MASS	1920-66 1960-66																				
HEBREW UNION COLLEGE N Y	1920-66 1960-66																				
HEBREW UNION COLLEGE OHIO	1920-66 1960-66																				
HEIDELBERG COLLEGE OHIO	1920-66 1960-66	19 6	2 3	7 3	1 1		9 2		1 1	1 1				19 6			5 3	4 1		10 2	
HENDERSON STATE TEACH COLL ARK	1920-66 1960-66	5 3	2 2	2 1			1							6 3			3 1	1 1	1	1 1	

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
2	2				3	1	2										2	10	GREENSBORO COLLEGE N C
16	8	4	1	2	26	7	8	1	2	2	5	1	7		7	42	128	GREENVILLE COLLEGE ILL	
6	2	1	1	12	12	2	4		1		4		1		1	16	42	COLLEGE ILL	
60	29	4	12	13	79	18	30	4	3	6	14	4	8	2	3	36	312	GRINNELL COLLEGE IOWA	
25	14	2	4	3	23	5	12			1	4	1	3	1	3	10	111	COLLEGE IOWA	
7	2	2	3		15	7	4	2			2		6	1	4	50	137	GROVE CITY COLLEGE PA	
5	1	2	2		8	4	1	2			1		2	1	11		41	COLLEGE PA	
16	8	4	2	1	15	3	3	6		2	1		3		3	6	72	GUILFORD COLLEGE N C	
4	2	1			2	1	1	1					2	2	4	20		COLLEGE N C	
22	11	3	6	1	20	7	1	1	1	5	4	1	15		14	30	132	GUSTAVUS ADOL- PHUS COLL MINN	
8	3		3	1	10	5	1			1	2	1	5	5	10		51	PHUS COLL MINN	
																	2	HANNEMANN MED COLL & HOSP PA	
35	15	1	2	5	9	100	18	36	22	9	5	2	11	2	6	30	274	HAMILTON COLLEGE N Y	
14	9	1		1	3	23	5	10	5	1	2		2	1	1	5	72	COLLEGE N Y	
38	15	1	9	6	6	27	9	1	3		5	6	3	10	9	30	163	HAMLINE UNIV MINN	
9	2	2	2	2	10	2			1		2	3	2	3	3	5	47	UNIV MINN	
																	1	HAMPOEN COLL OF 1 PHARMACY MASS	
11	6		1	4	29	13	7	4	2	2			4		4	11	96	HAMPOEN-SYDNEY COLLEGE VA	
					9	4	3						2		2	3	19	COLLEGE VA	
6	1	1	1	3	5	1	1				2	1	5	2		48	84	HAMPTON INSTITUTE VA	
1					1											18	26	INSTITUTE VA	
5	2			2	15	7	1	2	3		2		3	1	2	13	81	HANOVER COLLEGE IND	
4	2			1	7	5					2		2	2	1	9	37	COLLEGE IND	
8	5	1		2	18	3	9	2			2	2	9	4	3	32	88	HARDIN-SIMMONS UNIVERSITY TEX	
5	4			1	5	1	3				2	1	4	2	1	14	34	UNIVERSITY TEX	
2	2				18	6	5				5	2	6	3	1	24	72	HARJOING COLLEGE ARK	
1	1				9	2	2				4	1	4	2	1	14	38	COLLEGE ARK	
2	1		1		8	2	2	1		1	1	1				26	42	HARRIS TEACHERS COLLEGE MO	
2	1			1	1											15	20	COLLEGE MO	
1	1																2	HARTFORD UNIVERSITY OF	
1	1																2	UNIVERSITY OF	
					3							3					3	HARTT COLLEGE OF MUSIC CONN	
					3							3					3	OF MUSIC CONN	
1	1												2		2	4	7	HARTFORD SEM FOUNDATN CONN	
4	3			1	5	2	1				1					7	35	HARTWICK COLLEGE N Y	
1	1				1	1										4	16	COLLEGE N Y	
757	204	89	76	203	157	1107	325	261	186	60	107	5	81	153	64	52	165	3712	HARVARD UNIV MASS
246	78	23	25	54	53	338	105	101	54	23	23	3	27	58	29	24	43	1164	UNIV MASS
																		6	HARVEY MUDD COLLEGE CAL
																		6	COLLEGE CAL
26	7	1	2	10	5	27	10	2	2		3	8	2	5	1	3	45	149	HASTINGS COLLEGE NEBR
8	2		1	3	2	11	4		1		2	3	1	1		18	53	COLLEGE NEBR	
68	28	2	4	18	13	131	22	43	31	11	13	1	3	16	2	14	12	418	HAVERFORD COLLEGE PA
26	12	2		7	2	37	7	18	6	2	3		1	7	1	6	4	131	COLLEGE PA
38	11	5	6	5	7	24	9	3	5	1	2	3		5	4	1	32	223	HAWAII, UNIVERSITY OF
20	8	4	4	2	2	9	4		3		1	1		3	3		14	102	UNIVERSITY OF
1						3			1	2				1		1	2	7	HEBREW TEACHERS COLLEGE MASS
1						1											1	5	COLLEGE MASS
																	1	1	HEBREW UNION COLLEGE N Y
																	1	1	COLLEGE N Y
2		1		1	4	3				1			11		11	1	18	HEBREW UNION COLLEGE OHIO	
																			COLLEGE OHIO
24	11	5	6	2	25	8	2	4	1	2	6	2	4	2	2	20	111	HEIDELBERG COLLEGE OHIO	
10	6	1	2	1	12	4		1	1	1	4	1	2	1	1	10	46	COLLEGE OHIO	
7	3	2	2		9	4	2	1			1	1	3		1	27	57	HENDERSON STATE TEACH COLL ARK	
2	2				4	2											24	TEACH COLL ARK	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIostatist	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY
HENORIX COLLEGE ARK	1920-66 1960-66	25 6	5 1	3 1			17 4	2 2	5 2				13 4	2		5 3					6 1
HIGH POINT COLLEGE N C	1920-66 1960-66	2	1	1									3 3			1 1	2 2				
HILLSDALE COLLEGE MICH	1920-66 1960-66	6		2			2			1	1		2 2			1 1	1 1	1		4	
HILLYER COLLEGE CONN	1920-66 1960-66																				
HIRAM COLLEGE OHIO	1920-66 1960-66	49 4		9 1	1 1		38 3	2 2	5 1	1	1		19 6	3 2	3	1	3 1			9 3	
HOBART & WM SMITH COLL N Y	1920-66 1960-66	36 6	5 2	9 2		1	22 2	4 4	3 1				29 5	2	2	9 3	4 2			12	
HOFSTRA UNIVERSITY N Y	1920-66 1960-66	43 24	9 5	7 5	2 2	1	22 10	4 2	4 3	3 3	2 1		16 10			9 6	3 1		4 3		
HOLLINS COLLEGE VA	1920-66 1960-66	2 2	1 1				1 1	1 1					1							1	
HOLY CROSS, COL OF THE, MASS	1920-66 1960-66	71 33	9 6	16 11		1	43 14	10 6	12 6		3 2		31 13	1 1	8 4	12 5	5 2		5 1		
HOLY FAMILY COLLEGE WISC	1920-66 1960-66												1 1					1 1			
HOLY NAMES, C OF THE, CAL	1920-66 1960-66	1					1	1													
HOOD COLLEGE MO	1920-66 1960-66												8 3			1 1	1 1			6 1	
HOPE COLLEGE MICH	1920-66 1960-66	124 30	6 3	11 4	2 1		106 23	26 16	8 2		1	1	56 12	2		24 7	14 4	1	15 1		
HOUGHTON COLLEGE N Y	1920-66 1960-66	17 9	4 2	4 3		1	9 4	1 1	1				9 7			5 5	1 1		3 2		
HOUSTON, UNIVERSITY OF	1920-66 1960-66	29 17	2 1	8 2		2	3 2	1 1	1 1	3 2	13 10	5 5	1	21 10	2 1		6 5	4 2		9 2	
HOWARD PAYNE COLLEGE TEX	1920-66 1960-66	6 3	2 1	1 1	1		3 1	1 1	1				4 3			1 1	1 1		2 1		
HOWARD UNIVERSITY D C	1920-66 1960-66	37 14	5 2	10 6		2	20 5	2 2	2 2	1	1		35 10		3 1	7 2	11 5		14 2		
HUMBOLDT STATE COLLEGE CAL	1920-66 1960-66	2 2	1 1	1 1		1							12 9	1			1		10 9		
HUNTER COLLEGE N Y	1920-66 1960-66	88 25	20 4	14 2		1	39 11	7 5	7 4	14 7	1		109 33	4	3	40 16	26 12		36 5		
HUNTINGTON COLLEGE IND	1920-66 1960-66												2			1			1		
HUNTINGDON COLLEGE ALA	1920-66 1960-66	3 2	1 1	1 1		1	1						11 7			5 3	2 2		4 2		
HURON COLLEGE S O	1920-66 1960-66	12	2				8	2		2			2		1				1		
HUSTON-TILLOT- SON COLL TEX	1920-66 1960-66	5 2					5 2		1				2 1		1				1 1		
IDAHO, COLLEGE OF	1920-66 1960-66	25 9	2 1				21 6	3 1	1 1		2		1	18 6			4 1	4 1	1 1	9 3	
IDAHO STATE UNIVERSITY	1920-66 1960-66	19 10	1	3 1		2	14 8		5 4	1 1			29 13	1 1	20 6	3 2		1 1	4 3		
IDAHO, UNIVERSITY OF	1920-66 1960-66	122 48	9 2	12 2		2	49 12	10 6	6 4	15 7	37 25	15 9	4 2	197 65	80 29	9 1	26 11	37 8	3 3	42 13	
ILLINOIS COLLEGE	1920-66 1960-66	33 4	4	3			24 4	4	3 3		2	1		17 3		1	3 1	3	1	9 2	
ILLINOIS COLL OF OPTOMETRY	1920-66 1960-66																				
ILLINOIS INST OF TECHNOLOGY	1920-66 1960-66	374 166	46 25	56 25	4 1	11 9	80 27	8 5	15 11	1 1	191 88	50 17	35 16	20 7	1 1	4	13 6	1		1	
	1920-66 1960-66	1 1		1 1		1 1															

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
13 3	5 3	3	3	2	24 9	7 2	11 3				1	5 4	6 2	1 1	4 1	32 8	113 32	HENDRIX COLLEGE ARK	
					1 1			1 1					1 1		1 1	11 7	18 11	HIGH POINT COLLEGE N C	
17 4	8 3	5	1	2 1	7 2	2 1	3 1	1 1			1		3 2	1 1	1 1	19 13	59 23	HILLSDALE COLLEGE MICH	
					1 1						1 1					3 3	4 4	HILLYER COLLEGE CONN	
19 4	6 2	2 1	5	5 1	30 7	11 1	3 1	4 1	1	1	8 4	2	8 3	2 1	6 2	25 6	150 30	HIRAM COLLEGE OHIO	
29 12	10 3	5 4	10 4	3 1	40 10	12 2	16 8	6	1		2		4 2		3 1	20 7	158 42	HOBART & WM SMITH COLL N Y	
30 20	23 18	3 1	2	2 1	17 7	3	8 5	5 1		1 1			2 2	2 2		19 14	127 77	HOFSTRA UNIVERSITY N Y	
5 2	2 1			1	11	4	3	2		1		1	1		1		20 4	HOLLINS COLLEGE VA	
25 11	6 2	5 1	9 6	4 1	68 34	16 7	29 15	5 4	8 4	8 4	1	1	11 4	2 1	3 1	31 13	237 108	HOLY CROSS, COL OF THE, MASS	
					1 1	1 1							1 1			2 1	5 4	HOLY FAMILY COLLEGE WISC	
2 1	1	1 1			9 5	3	3 2	3 3								6 3	18 9	HOLY NAMES, C OF THE, CAL	
4 1	1 1	1		2	5 1	1 1	3				1					3	20 5	HOOD COLLEGE MD	
23 10	11 7	1 1	4	5 1	23 9	8 3	7 4	3 1	1	4 1			17 4	2 1	13 3	37 15	280 80	HOPE COLLEGE MICH	
12 5	8 5	1		1	2 16	5 8	3 2	4 1	2 2	1 1			11 4		10 4	26 7	91 40	HOUGHTON COLLEGE N Y	
46 35	36 27	1 1	3 2	3 3	21 15	4 2	8 5	4 4		3 2	2 2		5 4	2 2		33 14	155 95	HOUSTON, UNIVERSITY OF	
1	1				7 2	3 1	3 1	1					1	1		28 12	47 20	HOWARD PAYNE COLLEGE TEX	
54 16	25 9	1	10 1	6 2	11 3	44 15	16 5	12 4	10 3		3 1	1	2 2	7 2	1 1	53 10	230 67	HOWARD UNIVERSITY D C	
3 2	2 1			1 1	3 2		2 1				1 1					14 6	34 21	HUMBOLDT STATE COLLEGE CAL	
203 95	136 67	14 5	15 4	14 3	12 7	189 67	26 10	43 21	75 20	10 1	13	9 6	11 9	15 5	3	1 1	170 69	774 294	HUNTER COLLEGE N Y
					5	4			1				1		1	8 4	16 4	HUNTINGTON COLLEGE IND	
2		1			6 3	1 1	5 2									7 1	29 13	HUNTINGDON COLLEGE ALA	
11 3	3 1	1		1 1	4 1	6 1		3			3 1		3 2	3 2		16 5	50 11	HURON COLLEGE S D	
2 2				1 1	1 1	1 1		1 1					3 1	1 1	2	8 4	21 11	HUSTON-TILLOT- SON COLL TEX	
3 3	3 3				11 7	3 1	1 1	3 1		3 3	1 1		2 2	1 1	1 1	18 9	77 36	IDAHO, COLLEGE OF	
6 5	4 3	2 2			11 11	1 1	1 1	1 1			7 7	1 1	3 2	2 2		6 5	74 46	IDAHO STATE UNIVERSITY	
60 25	23 9	1 1	4	19 10	8 1	37 11	9 3	9 5	1	1 1	7 2	5 2	9 4	2	3 1	70 27	495 180	IDAHO, UNIVERSITY OF	
12 7	5 3		3 1	2 1	2 2	21 6	11 4	5 1		1	4 1		3 1	1 1	1	18 2	104 23	ILLINOIS COLLEGE	
1 1	1 1				1			1									2 1	ILLINOIS COLL OF OPTOMETRY	
34 15	20 7		4	6 4	3 3	13 4	5	2 2	3		2 1	1 1	17 3	8 3	6	22 7	480 202	ILLINOIS INST OF TECHNOLOGY	
																1	2		

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	ANAT., CYTOL., ENTOMOL., GENET., MICROBIOL., EMBRYOL.	ECOL., ZOOLOG., GEN. BIC.	
ILLINOIS STATE UNIV., NORMAL	1920-66	26	4	6	1	2	16	1	3				25	4	1	4	4	2	10	
	1960-66	8	2	3		2	3	1	1				6	2						
ILL. TEACH. COLL., CHICAGO N & S	1920-66	1					1						6						6	
	1960-66												2						2	
ILLINOIS UNIVERSITY OF	1920-66	1691	99	145	15	23	821	192	54	88	538	112	107	889	227	105	201	210	7	139
	1960-66	583	37	56	14	16	160	75	22	30	300	51	65	260	72	32	65	59	5	27
ILL. WESLEYAN UNIVERSITY	1920-66	35	4	3			27	7	4		1	1		15	3	4	4	1		3
	1960-66	4					4	2						1			1			
IMMACULATE COLLEGE PA	1920-66	3	1				2	2						5			2			3
	1960-66	3	1				2	2						3			1			2
IMMACUL. CONCEPT SEMINARY MO	1920-66													1						1
	1960-66																			
IMMACUL. CONCEPT SEMINARY N J	1920-66																			
	1960-66																			
IMMACULATE HEART COLL. CAL	1920-66	4	1				3		1					6			1	1		4
	1960-66	3	1				2							5						3
INCARNATE WORD COLLEGE TEX	1920-66	1	1											3						2
	1960-66	1	1											1			1			
INDIANA CENTRAL COLLEGE	1920-66	3					3	2						13	1	2				10
	1960-66	1					1							2						1
INDIANA INST. OF TECHNOLOGY	1920-66	12		2	1						10	1	4							
	1960-66	10									8									
INDIANA STATE COLLEGE PA	1920-66	6	2				4							13		1	2	1	2	7
	1960-66	2	1				1							6			1	1	1	4
INDIANA STATE UNIVERSITY	1920-66	23	4	8		1	10	3		1				41	1	3	7	17		13
	1960-66	6	1	2			3	2						10			3	5		1
INDIANA UNIVERSITY	1920-66	344	31	87	4	1	171	21	18	48	7			177	6	23	41	46	1	60
	1960-66	72	8	20	4	1	21	8	4	23				32	1	1	10	14	1	5
INDIANA JUNIOR COLLEGE	1920-66	18	2	2			3	2			11	4	4	1			1			
	1960-66	8					1	1			7	1	4							
INTERDENOM. THEO. CENTER GA	1920-66																			
	1960-66																			
INTER. AMER. UNIV. OF PUERTO RICO	1920-66	1									1	1		5			1	1		3
	1960-66	1									1	1		2			1	1		
IOWA COLLEGE N Y	1920-66	17	1	3			11	9	2	2				5		1	2	1		1
	1960-66	13	1	2			10	8	2					5		1	2	1		1
IOWA STATE COLLEGE OF	1920-66	39	5	9			21	3	4	2	2		1	45	4		5	10	1	25
	1960-66	7	3				3	2	1	1				15	2		2	4		7
IOWA STATE UNIV. OF SCI & TECH	1920-66	623	53	77	5	14	204	38	25	26	263	54	55	567	215	44	95	152	4	57
	1960-66	263	25	21	4	11	52	15	13	10	155	22	34	184	98	15	29	29	3	10
IOWA UNIVERSITY OF	1920-66	344	39	42	1		138	35	23	35	90	27	18	210	8	53	53	25	1	70
	1960-66	90	19	6			24	12	3	7	34	6	9	52	3	19	11	7		12
IOWA WESLEYAN COLLEGE	1920-66	24	2	2			19	3	3		1	1		19	1	1	3	6		9
	1960-66	1									1			3			2	1		
ITHACA COLLEGE N Y	1920-66													1				1		
	1960-66													1				1		
JACKSON STATE COLLEGE MISS	1920-66																			
	1960-66																			
JACKSONVILLE STATE COLL. ALA	1920-66	4	3				1	1						5		1	1	1		2
	1960-66	2	2											3		1		1		1
JACKSONVILLE UNIVERSITY FLA	1920-66																			
	1960-66																			
JAMESTOWN COLLEGE N D	1920-66	20	1	1			15	4	3	1	2	2		7			3	2		2
	1960-66	7					5	1	1	1				1				1		
JARVIS CHRISTIAN COLL. TEX	1920-66																			
	1960-66																			
JEFFERSON MED. COLL. OF PHILA	1920-66													6		5	1			
	1960-66																			
JERSEY CITY STATE COLLEGE	1920-66													1		1				
	1960-66													1		1				

Doctorates by Field																		Institution of Baccalaureate			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOLOGY AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	PHYSIC SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AVER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS		
61	7	5	8	11	31	5	5	5			14	2	9	8				162	314 ILLINOIS STATE UNIV, NORMAL		
14	9		1	2	8	2	5											53	82 ILL TEACH COLL, CHICAGO N & S		
601	206	5	54	250	56	384	101	107	75	11	21	43	23	124	74	9	415	4104 ILLINOIS UNIVERSITY OF			
194	83	3	17	69	15	107	19	29	22		7	3	7	43	30	4	138	1325 ILLINOIS UNIVERSITY OF			
14	7		3	2	2	25	6	4	1					10	4	4	27	126 ILL WESLEYAN UNIVERSITY			
1	1					5	1							7	3	3	11	29	21 IMMACULATE COLLEGE PA		
3	2			1	1	9		5	1	3							1	12	7 IMMACUL CONCEP SEMINARY MO		
1	1					4	2		1	1							1	6	6 IMMACUL CONCEP SEMINARY N J		
						1					1		3		3	2		1	41 IMMACULATE HEART COLL CAL		
5	1	2	1	1	17	1	7	5		2	1	1	1	1	1	8		26	20 INCARNATE WORD COLLEGE TEX		
2	1	1			9	2	3	2	1			1	1			4		8	59 INDIANA CENTRAL COLLEGE		
5	3	2			15	9	1		2	1	2		6	1	4	17		19	12 INDIANA INST OF TECHNOLOGY		
3	1	2			3		1											10	135 INDIANA STATE COLLEGE PA		
10	6		1		1	12	2	3			1	2	4	2	1	1	92	61	324 INDIANA STATE UNIVERSITY		
4	3				1	8											40	116	1361 INDIANA UNIVERSITY		
30	10	5	4	5	43	13	13	3			14		11	6	1	176		77	29 INDIANA JUNIOR COLLEGE		
3	2				13		2				7		7	5					1	1 INTERDENOM THEO CENTER GA	
232	108	9	15	45	39	240	67	60	48	11	11	20	18	73	47	3	295	1361	407	5 INTER AMER UNIV OF PUERTO RICO</td	
69	27	4	14	11	17	82	17	22	16	2	6	10	40	35	112		7	29	407	6 IONA COLLEGE N Y	
					2	1							1	1				8	6	475 IOWA STATE COLLEGE OF	
																		8	6	148 IOWA STATE COLLEGE OF	
2	2																	1	2	1501 IOWA STATE UNIV OF SCI & TECH	
3	3				13	3	6	3		1								6	5	578 IOWA STATE UNIV OF SCI & TECH	
3	3				12	2	6	3		1								5	2	3 JARVIS CHRISTIAN COLL TEX</td	
70	18	9	15	16	40	17	9	1	1	1	22	9	19	14	1	242		95	1501	61 JAMESTOWN COLLEGE N O	
10	1	5	1	1	15	3	1				7	3	6	6		95		39	578	1 JARVIS CHRISTIAN COLL TEX	
179	52	1	26	92	5	12	7	3	1		1		25	10	3	95		39	578	6 JEFFERSON MED COLL OF PHILA	
70	17		14	36	5	5	2	1	1				17	7	2	39				1	1 JARVIS CHRISTIAN COLL TEX
																					6 JEFFERSON MED COLL OF PHILA
342	151	3	28	79	67	322	70	94	35	6	17	67	31	79	49	4	234	1531	414	3 JACKSONVILLE UNIVERSITY FLA	
86	39		7	16	14	86	19	22	6	2	8	19	10	17	11	2	83	414	17	61 JAMESTOWN COLLEGE N O	
5	1	1	1	2	6	3	1				1	1	5	2	3	17		9	20	1 JARVIS CHRISTIAN COLL TEX	
2	1				6	1					2	3				24		11	1	6 JEFFERSON MED COLL OF PHILA	
1	1				4	1					1	2				11					1 JARVIS CHRISTIAN COLL TEX
																					6 JEFFERSON MED COLL OF PHILA
4	3	1			5	2		2			1		1		1	21		18	40	3 JACKSONVILLE UNIVERSITY FLA	
1	1																				1 JARVIS CHRISTIAN COLL TEX
1	1																				6 JEFFERSON MED COLL OF PHILA
6	3	1	2		9	3	3	1	1		1		1			18		7	61	1 JARVIS CHRISTIAN COLL TEX	
1	1																				6 JEFFERSON MED COLL OF PHILA
1	1				2		2									19		10	23	13 JERSEY CITY STATE COLLEGE	
																					13 JERSEY CITY STATE COLLEGE

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
JEWISH STUDIES, COLL OF, ILL	1920-66 1960-66																				
JEWISH THEOL SEM OF AM N Y	1920-66 1960-66	1					1	1													
JOHN BROWN UNIVERSITY ARK	1920-66 1960-66	5 2	1				2 1		1 1		2 1		1 3			2 2					1 1
JOHN CARROLL UNIV OHIO	1920-66 1960-66	33 25	4 4	11 9	1 1	4 3	17 11	7 5	4 4		1 1		7 2			4 2	1			2	
JOHN MARSHALL LAW SCHOOL ILL	1920-66 1960-66																				
JOHNS HOPKINS UNIVERSITY MD	1920-66 1960-66	518 140	40 13	86 28	6 6	6 4	159 26	20 12	20 10	52 8	181 65	32 13	56 21	135 45	4 2	12 2	68 31	21 7	1		29 3
JOHNSON BIBLE COLLEGE TENN	1920-66 1960-66													1 1						1 1	
JOHNSON C SMITH UNIVERSITY N C	1920-66 1960-66	9 3	3				6 3	2 1	2 2					5 2				1 1		4 1	
JUDSON COLLEGE ALA	1920-66 1960-66													2 2		1 1		1 1			
JUILLIARD SCH OF MUSIC N Y	1920-66 1960-66	1 1	1 1																		
JUNIATA COLLEGE PA	1920-66 1960-66	80 20	3 3	5			68 15	10 7	11 5	2 2	2	2		23 11	1	2 1	10 5	7 4			3 1
KALAMAZOO COLLEGE MICH	1920-66 1960-66	116 27	5 1	26 8		1	84 18	21 12	5 3	1				48 11		2 1	22 4	9 2			15 4
KANSAS UNIVERSITY OF	1920-66 1960-66	397 149	21 12	74 23	3 3	11 8	142 34	21 13	17 11	42 17	108 63	34 17	23 17	240 56	8	25 6	42 19	90 19	1		74 12
KANS STATE COLL PITTSBURG	1920-66 1960-66	31 13	3 3	2 1			25 9	6 4	2 1		1	1		30 7	3	4 1	3 1	8 2			12 3
KANSAS ST TCHRS COLL EMPORIA	1920-66 1960-66	44 14	9 4	13			19 8	4 3	5 3	2 1	1 1			41 17	2		2 1	5 2	2 2		30 12
KANSAS ST UNIV OF AG & AP SCI	1920-66 1960-66	233 113	8 3	32 18	2 2	5 5	81 25	6 2	15 8	14 10	98 57	14 7	13 7	379 142	157 62	39 19	48 21	84 29	1 1		50 10
KANSAS WESLEYAN UNIV	1920-66 1960-66	5 2	2	1			2 2	1 1	1 1					3 3			2 2				1 1
KEARNEY STATE COLLEGE NEBR	1920-66 1960-66	14 7	3 1	2 2		1	9 4	1 1	3 3					17 5	1 1		8 2	3 1			5 1
KEENE STATE COLLEGE N H	1920-66 1960-66													2 1	2 1						
KENRICK SEMINARY MO	1920-66 1960-66	1 1	1 1																		
KENT STATE UNIV OHIO	1920-66 1960-66	55 31	4 2	11 4	1 1		24 20	8 8	6 4	5 5	1			43 14	3 1	1	9 3	13 5	2 2		15 3
KENTUCKY STATE COLLEGE	1920-66 1960-66	1					1 1		1 1					3 3			1 1				2 2
KENTUCKY UNIVERSITY OF	1920-66 1960-66	218 59	24 7	44 9	4 3	2 1	83 12	5 1	13 6	16 8	51 23	2 1	1 2	222 81	98 41	20 5	37 18	39 10	1 1		27 6
KENTUCKY WESLEYAN COLL	1920-66 1960-66	7 4	3 1	1 1			3 2	2 2						1							1
KENYON COLLEGE OHIO	1920-66 1960-66	56 22	14 6	8 2		1	32 14	8 7	4 4		2	2		17 4		1	4 3	4 1			8
KEUKA COLLEGE N Y	1920-66 1960-66	1					1							3 1		1	2 1				
KING COLLEGE TENN	1920-66 1960-66	16 8	1 1	6 5		2 1	9 2	3 1	1 1					5 2	1		2 2				2
KINGS COLLEGE PA	1920-66 1960-66	22 15					22 15	5 4	9 6					13 9		1	1 1	10 8			1
KINGS COLLEGE N Y	1920-66 1960-66	2					2	1	1												
KIRKSVILLE COLL OST & SURG MO	1920-66 1960-66													1	1						

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
1				1	1													2	JEWISH STUDIES, COLL OF, ILL
2	1				2				2			12		12			4	21	JEWISH THEOL SEM OF AM N Y
1				1	2	1	1					1	1				6	18	JOHN BROWN UNIVERSITY ARK
10	7		3		30	9	12	1	3	5		5	1	1			9	94	JOHN CARROLL UNIV OHIO
1				1														1	JOHN MARSHALL LAW SCHOOL ILL
130	58	3	3	25	35	156	41	37	38	11	22	3	2	10	1	4	63	1012	JOHNS HOPKINS UNIVERSITY MD
41	22					2	2							2	2	3		8	JOHNSON BIBLE COLLEGE TENN
2			2			5		4				1		2	2	16		39	JOHNSON C SMITH UNIVERSITY N C
1	1					1		1								2		6	JUDSDN COLLEGE ALA
2	2					13						13				19		35	JUILLIARD SCH OF MUSIC N Y
24	12	1	5	6		22	6	6	4		3	1	2	10		8	45	204	JUNIATA COLLEGE PA
22	9		4	3	6	21	5	12	1		1	1		7	2	5	18	232	KALAMAZOO COLLEGE MICH
13	5		2	1	5	11	2	6	1		1	1		2	1	1	3		
206	75	6	27	56	37	165	42	45	45	4	7	12	9	39	28	3	157	1204	KANSAS, UNIVFRSITY OF
56	18	3	9	12	12	47	10	8	11		4	9	4	11	10	1	54		
21	13		2	4	1	17	8	2	4			3		12	6	2	139	250	KANS STATE COLL PITTSBURG
6	4		1			5	3	1	1			1		6	3		49		
34	21	1	6	5	1	53	10	10	7		1	17	7	4	3		163	339	KANSAS ST TCHRS COLL EMPORIA
2			1			21	2	3	4		1	8	2				68		
109	32	1	6	60	9	21	7	3	2		1	6	2	14	2	1	77	833	KANSAS ST UNIV OF AG & AP SCI
37	7		1	23	5	5	3		1					9	1		38	344	
6	2			3	1	8	4	2				1	1	3	1	2	20	45	KANSAS WESLEYAN UNIV
3	1			1		4	3							1			5	17	
4	2		2			8	1	4	1			2		2	1		82	127	KEARNEY STATE COLLEGE NEBR
1	1					1	1				1						15	19	KEENE STATE COLLEGE N H
1				1		1											6		
2		1	1			1	1						1		1	1	1	6	KENRICK SEMINARY MD
74	34		18	7	3	38	4	6	2	1		23	1	9	5	2	93	312	KENT STATE UNIV OHIO
34	17		6	4		17	1	3	1			10		7	4		51	154	
2			1	1		2	2										12	20	KENTUCKY STATE COLLEGE
129	53	7	4	43	20	80	23	29	13		7	4	3	15	7	3	126	790	KENTUCKY, UNIVERSITY OF
48	19	4	2	12	9	28	9	9	4		2	2	2	9	4	3	46	271	
7	4		2	1		3	1	2						1		1	16	35	KENTUCKY WESLEYAN COLL
1			1											1			4	10	
30	13		1	9	7	56	3	34	6		10	3		3	2		6	168	KENYON COLLEGE OHIO
17	8		1	4	4	25	1	18	1		5			1	1		2	71	
1		1				2		1	1					1			4	12	KEUKA COLLEGE N Y
6	2		1	2	1	5	2	2	1					2		2	3	37	KING COLLEGE TENN
2	1		1			3	1	1			1			2	1			42	KINGS COLLEGE PA
2	1		1			3	1	1			1			2				31	
1	1					2	1		1					1		1	2	8	KINGS COLLEGE N Y
						1								1				1	KIRKSVILLE COLL OST & SURG MD

Appendix B
continued

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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOTATIST, ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	
KNOX COLLEGE ILL	1920-66 1960-66	73 20	12 5	13 3		1	47 12	14 8	2 1	1			29 12	2	3	8 5	6 2	1 1	9 2	
KNOXVILLE COLLEGE TENN	1920-66 1960-66	1					1	1					3 1			2 1			1	
KUTZTOWN STATE COLLEGE PA	1920-66 1960-66	8 4	1 1	1 1		1 1	5 2	1 1	1 1		1	1	6 3	1 1		2 2	2		1	
LADYCLIFF COLLEGE N Y	1920-66 1960-66												1 1						1 1	
LAFAYETTE COLLEGE PA	1920-66 1960-66	143 55	15 6	22 10		5 4	58 15	9 7	6 4	16 8	32 16	6 3	7 3	34 11	2	7 2	7 4	9 2	2 2	7 1
LA GRANGE COLLEGE GA	1920-66 1960-66												3 2			1 1			1 1	
LAKE ERIE COLLEGE OHIO	1920-66 1960-66												3 1			2 1	1			
LAKE FOREST COLLEGE ILL	1920-66 1960-66	11 4	1 1	5 2		1 1	5 1	1 1					10 3		2	1 1	2 1	1 1	4	
LAKELAND COLLEGE WISC	1920-66 1960-66	1 1					1 1						2				1		1	
LAMAR STATE COL OF TECHNOL TEX	1920-66 1960-66	29 26	2 2	5 4	1 1	1	2 2	1 1		4 4	16 14	7 5	2 2	3 3			1 1	2 2		
LAMBUTH COLLEGE TENN	1920-66 1960-66	4	1				3						3 1			1			2 1	
LANDER COLLEGE S C	1920-66 1960-66																			
LANE COLLEGE TENN	1920-66 1960-66												2 1		1				1 1	
LANGSTON UNIV OKLA	1920-66 1960-66	2 1					2 1						5 1	2		1 1			2	
LASALLE COLLEGE PA	1920-66 1960-66	42 24	3 3	9 5	3 3	1 1	29 15	9 5	8 7		1 1	1 1	12 7		1 1	6 4	1 1		4 1	
LA SIERRA COLLEGE CAL	1920-66 1960-66	3 2		3 2		1 1							6 6			4 4	2 2			
LA VERNE COLLEGE CAL	1920-66 1960-66	4 3	2 2	1 1			1						2				1		1	
LAWRENCE INST OF TECH MICH	1920-66 1960-66	6	1	2			1		1		2	1								
LAWRENCE UNIV WISC	1920-66 1960-66	69 15	3 2	6		1	49 10	15 4	9 4	9 3	2		1	36 9	3		14 2	8 3	11 4	
LEBANON VALLEY COLLEGE PA	1920-66 1960-66	59 14	4	4			48 13	14 9	1 1	1 1	2 1			33 8	1 1		9 4	7 3	15 1	
LEHIGH UNIVERSITY PA	1920-66 1960-66	388 176	24 12	76 32	5 4	14 11	123 31	23 12	25 15	30 12	135 89	41 31	14 9	33 9	1 1	1	10 2	14 4	1 1	6 1
LEMOYNE COLLEGE N Y	1920-66 1960-66	13 11		4 1	1 1		8 6	3 2	5 4	1 1				5 5			1 1	2 2	2	
LE MOYNE COLLEGE TENN	1920-66 1960-66	2 2	1 1				1 1							2 2		1 1	1 1			
LENOIR-RHYNE COLLEGE N C	1920-66 1960-66	18 8	4	2 2	1 1		12 6	2 1	6 4					4 2		1 1	1 1	1 1	1 1	
LETOURNEAU COLLEGE TEX	1920-66 1960-66	1 1	1 1																	
LEWIS & CLARK COLLEGE OREG	1920-66 1960-66	12 3	1 1	3 1			7 1		2 1		1			9 4		1 1	4 3		4 1	
LEWIS COLLEGE ILL	1920-66 1960-66	1					1							1 1			1 1			
LIMESTONE COLLEGE S C	1920-66 1960-66	1 1	1 1																	
LINCOLN CHRIST- IAN COLL ILL	1920-66 1960-66																			
LINCOLN MEM UNIV TENN	1920-66 1960-66	5 1		2			3 1							5 1			2 1		3	

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
33 15	17 11			9 2	7 2	51 17	22 5	9 3	6 4	2	6 2	2 1	3 1	1		29 7	218 72	KNOX COLLEGE ILL	
1		1				6 2	2	2	1 1			1 1				12 3	23 6	KNOXVILLE COLLEGE TENN	
2 1	2 1					3 1		2 1				1				49 27	68 36	KUTZTOWN STATE COLLEGE PA	
1	1					3 1	1 1	1		1						2 2	7 4	LADYCLIFF COLLEGE N Y	
68 21	45 14	2 1	1	10 4	8 2	66 14	10 3	25 4	14 2	1	8 3	4 1	1 1	17 6	3 2	12 4	36 8	364 115	LAFAYETTE COLLEGE PA
2 1	1				1 1	5 5	4 4	1 1					2 1		2 1	2 1	14 10	LA GRANGE COLLEGE GA	
2 1	2 1					2		1		1						1 1	8 3	LAKE ERIE COLLEGE OHIO	
16 7	9 5	1	1	5 2		19 7	2 1	7 3	7 1		1	2				12 6	68 27	LAKE FOREST COLLEGE ILL	
3	1		1			8 2	1	1	1 1	2	2 1		1	2 1		1 2	22 6	LAKELAND COLLEGE WISC	
1 1	1 1					4 4	2 2	2 2					5 5	5 5		2 2	44 41	LAMAR STATE COL OF TECHNOL TEX	
1 1				1 1		5 4	2 2	3 2					3 1		2 1	3 1	19 10	LAMBUTH COLLEGE TENN	
1		1								1			1 1			3 3	5 1	LANDER COLLEGE S C	
						1				1			1		1	3 3	7 4	LANE COLLEGE TENN	
8 5	1 1		4 2	3 2		2 1						1 1	1	2	1	1	9 4	28 12	LANGSTON UNIV OKLA
19 12	9 4	1 1	1 1	6 5	2 1	25 13	6 3	8 4	3 2	5 3	2 1			2 1	1 1	1 1	11 6	111 63	LASALLE COLLEGE PA
3 3	3 3					5 5	2 2				1 1	2					4 3	21 19	LA SIERRA COLLEGE CAL
6 3	1		2		3 3	4 3	3 2	1					1		1	16 12	33 21	LA VERNE COLLEGE CAL	
																	6	LAWRENCE INST OF TECH MICH	
55 15	23 7	5 3	2 1	16 4	8 1	54 20	11 5	11 6	4 1	2	8 1	11 3	6 4	4	3	1	58 14	276 73	LAWRENCE UNIV WISC
13 5	9 4			3 1	1 6	19 6	9 3	5 3		3		1		13 2	2 1	11 1	39 7	176 42	LEBANON VALLEY COLLEGE PA
30 11	14 5		2 1	10 4	1	29 10	7 4	11 3	5	2	3 2	1 1		12 7	7 4	4 2	21 8	513 221	LEHIGH UNIVERSITY PA
2 2	1 1		1			2 2		2 2									3 2	25 22	LEMOYNE COLLEGE N Y
						2 2			1 1			1 1		1 1		1 1	3 3	10 10	LE MOYNE COLLEGE TENN
4 2	2 1		1	1		5 2	1 1	2 1	1 1	1			8 5		7 4	13 5	52 24	LENOIR-RHYNE COLLEGE N C	
																	1	1	LETOURNEAU COLLEGE TEX
14 10	13 9				1 1	10 9	2 1	1 1	1 1		1 1	2 3	4 2	2 2	2	20 13	69 41	LEWIS & CLARK COLLEGE OREG	
1 1	1 1																3 3	3	LEWIS COLLEGE ILL
1	1					1 1		1 1									2 1	5 3	LIMESTONE COLLEGE S C
						1			1				2 1		2 1	1	4 1	1	LINCOLN CHRIST- IAN COLL ILL
7 3	5 1			1 1	1 1	7	3	2	1		1		1		1	19 10	44 15	LINCOLN MEM UNIV TENN	

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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field															
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIostatist, ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL ECOLOG, HYDROBIOLOGY BOT, ZOOL, GEN BIOL
LINCOLN UNIVERSITY PA	1920-66	13	3	1			8		4	1			16	4	2	2	6
	1960-66	5	2				3		3				5				2
LINCOLN UNIVERSITY MO	1920-66	6					5	1	1	1			4	1	2		1
	1960-66	4					3		1	1			3		2		1
LINDENWOOD COLL FOR WOMEN MO	1920-66	1					1						4		2	1	1
	1960-66												1				1
LINFIELD COLLEGE OREG	1920-66	28	2	10	2	15	1	1		1	1		19	1	4	4	10
	1960-66	10	2	5	2	2	1						2		1		1
LITTLE ROCK UNIVERSITY	1920-66	2					2		1								
	1960-66	1					1		1								
LIVINGSTON STATE COLL ALA	1920-66												1				1
	1960-66												1				
LIVINGSTONE COLLEGE N C	1920-66												5	1	2		2
	1960-66												3		1		1
LOCK HAVEN STATE COLL PA	1920-66	1					1	1					1				1
	1960-66	1					1	1									
LOMA LINDA UNIVERSITY CAL	1920-66												2	1		1	
	1960-66																
LONG ISLAND UNIVERSITY	1920-66	36	1	3	1	30	4	6	1	1			68	27	16	10	15
	1960-66	14	1	1	1	11	2	2	1				24	15	4	2	3
LONGWOOD COLLEGE VA	1920-66												1				1
	1960-66																
LORAS COLLEGE IOWA	1920-66	41	3	4		33	16	6		1		1	11	3	4	1	3
	1960-66	20	1	1		17	12	4				1	6	2	1		3
LORETTO HEIGHTS COLLEGE COLO	1920-66	2				2	1						2		1		1
	1960-66	1				1	1						1		1		
LOS ANGELES COLL OF OPTOM	1920-66												3				1
	1960-66												2				
LOS ANGELES PACIFIC COLL	1920-66																
	1960-66																
LOUISIANA COLLEGE	1920-66	13	3	1			8		2		1		1	6		1	4
	1960-66	3					3						2			1	1
LOUISIANA POLYTECH INST	1920-66	56	9	12	3	1	13	3	3	1	21	8	6	25	11	2	9
	1960-66	32	5	10	3	1	7	3	2	1	9	4	2	14	7	1	6
LA STATE UNIV & AG & MECH COLL	1920-66	233	23	41	3	4	69	11	12	25	75	31	9	201	90	16	22
	1960-66	98	9	20	3	3	17	5	7	11	41	13	7	73	47	12	11
LOUISVILLE PRES THEOL SEMINARY	1920-66																
	1960-66																
LOUISVILLE, UNIVERSITY OF	1920-66	111	5	15	1	63	20	12		28	14	5	33	5	11	6	9
	1960-66	45	1	4	1	25	10	9		15	7	4	22	3	7	3	7
LOWELL, STATE COLL AT, MASS	1920-66																
	1960-66																
LOWELL TECHNOL INSTITUTE MASS	1920-66	23		1	1	19	6	5		3	1						
	1960-66	14				10	4	3		3							
LOYOLA COLLEGE MO	1920-66	47	3	8	1	2	32	10	5		4	1	1	16	3	7	4
	1960-66	20	3	5	1	1	10	4		2			1	6	2	2	1
LOYOLA UNIVERSITY ILL	1920-66	85	9	10	1	2	63	23	12	1	2	1		52	1	7	8
	1960-66	40	2	6	1	2	32	19	6				29	1	2	9	4
LOYOLA UNIVERSITY LA	1920-66	59	4	19	1	5	33	4	6	1	2		17	5	7	4	1
	1960-66	34	4	12	1	4	17	3	5		1		9	3	3	2	1
LOYOLA UNIV OF LOS ANGELES	1920-66	14	1	2	2		10	3	2	1			6		3	3	
	1960-66	11					7						3				
LUTHER COLLEGE IOWA	1920-66	46	15	12	3	18	6	3	1				32	2	8	9	13
	1960-66	18	8	4	2	5	4	2					12		6	4	2
LUTHERAN SCHOOL OF THEOL ILL	1920-66																
	1960-66																
LUTHERAN THEOL SEMINARY PHILA	1920-66																
	1960-66																
LUTHERAN THEOL SOUTH SEM S C	1920-66												1				1
	1960-66																

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
16 4	8 2	1		2	4	8	1	3		1	2	1	3		2	22 4	78 21	LINCOLN UNIVERSITY PA	
8 3	1		4 2	2 1	1	3	1		2							20 6	41 16	LINCOLN UNIVERSITY MD	
2 1	1 1			1		3 2		2 1	1 1							1	11 4	LINCOLNWOOD COLL FOR WOMEN MO	
19 6	5 3		6 1	3 1	4 1	16 6	5 2	4 1	1		3 1	2 2	7 1	1	5 1	21 4	110 29	LINFIELD COLLEGE OREG	
1 1	1 1					2 1	1	1 1					1		1	1	7 3	LITTLE ROCK UNIVERSITY	
						1	1									13 7	15 8	LIVINGSTON STATE COLL ALA	
3 1	1		1 1	1		3	2	1								5 3	16 7	LIVINGSTONE COLLEGE N C	
4 1	3 1		1			2	1	1								49 28	57 30	LOCK HAVEN STATE COLL PA	
													1			1 1	4 1	LOMA LINDA UNIVERSITY CAL	
63 23	53 17		1 1	3 1	3 2	18 12	5 3	7 5	3 3		3 1		2 2	2 2		49 13	236 88	LONG ISLAND UNIVERSITY	
						2		2								5 1	8 1	LONGWOOD COLLEGE VA	
22 11	14 10		4 1	1	3	40 8	13 2	14 2	3 1	5 1	3 1	1 1	1		1	16 9	131 54	LORAS COLLEGE IOWA	
1 1			1 1			7 4	4 2	1 1			1 1					3 2	15 9	LORFTD HEIGHTS COLLEGE COLO	
																	3 2	LOS ANGELES COLL OF OPTOM	
													1		1		1 1	LOS ANGELES PACIFIC COLL	
9 3	5 1		3 2		1	19 8	4 1	4 2		1		8 4	2 1	2 1	1	12 6	61 23	LOUISIANA COLLEGE	
8 2	1		2	5 2		13 5	1	8 3	3 2			1		13 9	8 7	1 1	39 18	154 80	LOUISIANA POLYTECH INST
107 39	30 11	1	24 5	30 13	14 7	91 37	21 8	21 6	18 10	1	2 1	20 8	8 4	29 14	14 7	4 2	102 36	763 297	LA STATE UNIV & AG & MECH COLL
						1	1										1	2	LOUISVILLE PRES THEOL SEMINARY
38 16	23 9	3 1	3 2	4 3	4 1	48 21	12 4	18 5	8 6	1	4 4	1 2	4 2	9 4	4 2	2 1	22 12	261 120	LOUISVILLE, UNIVERSITY OF
																	11 6	11 6	LOWELL STATE COLL AT, MASS
1				1		2 2		2 2									1 1	27 17	LOWELL TECHNOL INSTITUTE MASS
13 5	6 2		1 1	4 1	2 1	10 2	4	4 1		2 1			3 1		2 1	6 4		95 38	LOYOLA COLLEGE MO
67 37	39 24	1	8 4	5 2	14 7	95 39	22 9	35 13	6 1	10 5	18 2	2 1	13 2	4 2	9	44 23	356 170	LOYOLA UNIVERSITY ILL	
10 1	4 1		2	2	1	24 11	5 4	10 5	5	1	1 1	1 1	4 2	1 1	2	9 4	123 61	LOYOLA UNIVERSITY LA	
11 6	1 1			2 1	7 3	14 10	4 3	4 3	1	1 1	4 3		1 1	1 1		4 4		50 35	LOYOLA UNIV OF LOS ANGELES
20 7	7 1	1	1	8 4	3 2	37 11	12 1	7 3	7 1	1	4 4	3 2	10 5	2 1	8 4	35 13	180 66	LUTHER COLLEGE IOWA	
						1	1										4	4	LUTHERAN SCHOOL OF THEOL ILL
						2	1		1								2	2	LUTHERAN THEOL SEMINARY PHILA
																	1	1	LUTHERAN THEOL SOUTH SEM S C

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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOG, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
LYCOMING COLLEGE PA	1920-66 1960-66												2		1	2		1		
LYNCHBURG COLLEGE VA	1920-66 1960-66	16 1	1 1	5 1			10		1				10 5	1 1	2 2	1 1		6 1		
LYNOON STATE COLLEGE VT	1920-66 1960-66																			
MACALESTER COLLEGE MINN	1920-66 1960-66	34 9	5 2	3			20 4	2 1	4 2	5 3	1	1	27 8	4 1	2	9 3	7 1	2 1	3 1	
MACMURRAY COLLEGE ILL	1920-66 1960-66	6 2					6 2	1 1	1				1			1				
MACPHAIL COLL OF MUSIC MINN	1920-66 1960-66																			
MADISON COLLEGE VA	1920-66 1960-66	1					1		1				4		3			1		
MAHONNA COLLEGE MICH	1920-66 1960-66	1 1					1 1													
MAINE, UNIVERSITY OF	1920-66 1960-66	107 46	8 1	27 15	1	9 8	45 13	7 3	11 6	7 5	20 12	2 2	1 1	157 59	62 27	7 3	18 8	31 14	1 1	38 6
MALONE COLLEGE OHIO	1920-66 1960-66																			
MANCHESTER COLLEGE INO	1920-66 1960-66	60 12	3	11 4	1 1		46 8	8 6	1				22 9	1 1	3 2	5 2	5 1	8 3		
MANHATTAN COLLEGE N Y	1920-66 1960-66	123 87	9 6	22 15	3 3	4 3	49 31	19 16	12 9	1 1	42 34	1 1	11 9	27 18		8 7	13 12	6 4		
MANHATTAN SCH OF MUSIC N Y	1920-66 1960-66																			
MANHATTANVILLE COLL SAC HEART	1920-66 1960-66	2 2		2 2									4 2		1 1		3 1			
MANKATO STATE COLLEGE MINN	1920-66 1960-66	16 10	4 3	1			11 7	1 1	5 2				11 6	1 1		1	5 3	4 2		
MANNES COLLEGE OF MUSIC N Y	1920-66 1960-66																			
MANSFIELD STATE COLLEGE PA	1920-66 1960-66	3 1	1 1				2						4 1			2 1		2		
MARIAN COLLEGE INO	1920-66 1960-66	1 1					1 1						1					1		
MARIAN COL FOND DU LAC WISC	1920-66 1960-66																			
MARIETTA COLLEGE OHIO	1920-66 1960-66	58 18	11 5	6 4	1 1		32 7	7 4	4 3	9 2			40 14	2 1		7 3	16 9	15 1		
MARILLAC COLLEGE MO	1920-66 1960-66	1 1					1 1		1 1				1 1		1 1					
MARION COLLEGE INO	1920-66 1960-66	6 3	2 1	2			2 2	1 1					4		1 1	1		2		
MARIST COLLEGE N Y	1920-66 1960-66	5 5	1 1	2		1	2 2	1 1	1 1											
MARITIME COLLEGE N Y	1920-66 1960-66												1 1					1 1		
MARLBORO COLLEGE VT	1920-66 1960-66												2				1 1	1 1		
MARQUETTE UNIV WISC	1920-66 1960-66	125 70	14 12	15 7	1 1	2 1	47 19	13 9	5 4	1 1	48 31	2 1	15 8	70 29	4 3	11 5	16 12	19 6	20 3	
MARSHALL UNIV W VA	1920-66 1960-66	34 16	3	2 1		1	24 11	1	4 4	2 1	3 3		18 9	2 1	1	3 3	3 2	2	7 3	
MARY BALOWIN COLLEGE VA	1920-66 1960-66																			
MARY HARJOIN- BAYLOR COL TEX	1920-66 1960-66												1			1				
MARY IMMACULATE COLLEGE CONN	1920-66 1960-66												1 1					1 1		

Doctorates by Field														Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	
11	6	5			4	2				1	1	3	3	29 LYCOMING
8														18 COLLEGE PA
13	5	2	5	1	13	5	4			2	2	4	4	76 LYNCHBURG
3	2		1		5	1						1	1	24 COLLEGE VA
														2 LYNDON STATE
														2 COLLEGE VT
30	12	1	2	2	13	26	5	7	3	2	4	3	2	152 MACALFSTER
16	5	2			7	13	2	4	1		4	1	12	61 COLLEGE MINN
6	4	1	1			8	2	2	3		1	1		30 MACMURRAY
2	2					2		2	2					6 COLLEGE ILL
						3						3		7 MACPHAIL COLL
						3						3		4 OF MUSIC MINN
						5	3	2				3		20 MADISON
						1	1					1		9 COLLEGE VA
														4 MADONNA
														1 COLLEGE MICH
59	25	1	2	19	11	44	19	10	7		2	6	11	431 MAINE
20	13	1	1	3	1	16	6	2	2		2	4	6	173 UNIVERSITY OF
1					1	1		1					1	5 MALONE
1													1	3 COLLEGE OHIO
25	8	6	6	5	37	17	3				15	2	13	203 MANCHESTER
7	1	3	2	1	7	5					1	1	2	57 COLLEGE IND
24	15		5	4	63	19	15	14	3	9		1	7	286 MANHATTAN
16	12		3	1	26	8	5	7		5		1	2	165 COLLEGE N Y
1	1				4							4		8 MANHATTAN SCH
1	1				4							4		8 OF MUSIC N Y
4	3	1			30	8	5	8	4	1	7	1	4	47 MANHATTANVILLE
3	2				8	1	3	3		2	2	1	1	20 COLL SAC HEART
5	1		1	2	9	3	2	1			1	2		82 MANKATO STATE
4	1		1	1	7	3	1	1			1	1		55 COLLEGE MINN
					1						1			1 MANNES COLLEGE
														1 OF MUSIC N Y
2		2			2		1				1	1		42 MANSFIELD STATE
1		1												12 COLLEGE PA
1				1	3	1	1		1					7 MARIAN
1					2									5 COLLEGE IND
		1												3 MARIAN COL FOND
21	8	1	4	3	3	22	3	6	2	3	7	1		1 DU LAC WISC
6	2			2	1	10	1	2			6	1		21 162 MARIETTA
														4 COLLEGE OHIO
														2 MARILLAC
														2 COLLEGE MO
2	1			1	8	4	3			1		3	3	39 MARION
					4	2	1							14 COLLEGE IND
1	1				5	2	1	2				1	1	13 MARIST
					5	2								12 COLLEGE N Y
1			1											2 MARITIME
1														2 COLLEGE N Y
														2 MARLBORO
														COLLEGE VT
44	21	12	6	4	69	12	25	5	4	9	13	1	11	353 MARQUETTE
23	16			1	36	8	16			1		1	4	181 UNIV WISC
28	10		2	12	23	8	7	5			3		3	139 MARSHALL
11	6		1	3	13	2	1						2	62 UNIV W VA
3	2				4		2	1				1		10 MARY BALDWIN
					3									4 COLLEGE VA
1														2 MARY HARDIN-
1														1 RAYLOR COL TEX
														1 MARY IMMACULATE
														1 COLLEGE CONN

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
MARY IMMACULATE SEMINARY PA	1920-66 1960-66																				
MARY MANSE COLLEGE OHIO	1920-66 1960-66	1					1														
MARY WASHINGTON COL OF UNIV VA	1920-66 1960-66											5		1			1			3	
MARYCREST COLLEGE IOWA	1920-66 1960-66	1					1	1				1					1				
MARYGROVE COLLEGE MICH	1920-66 1960-66	5	1				4	1				2				1				1	
		2					2					1				1					
MARYKNOLL SEMINARY N Y	1920-66 1960-66																				
MARYKNOLL SEMINARY ILL	1920-66 1960-66	2					2	1	1												
MARYLAND INST, COLLEGE OF ART	1920-66 1960-66																				
MARYLAND STATE COLLEGE	1920-66 1960-66											5	3				2				
												1					1				
MARYLAND, UNIVERSITY OF	1920-66 1960-66	231	19	27	4	4	119	19	12	3	63	19	11	330	89	41	34	106	2	58	
		89	11	16		3	20	9	6	2	40	13	7	106	31	11	14	38		12	
MARYLHURST COLLEGE OREG	1920-66 1960-66											4			1		2	1			
												2					1				
MARYMOUNT COLLEGE CAL	1920-66 1960-66											1					1				
												1									
MARYMOUNT COLLEGE N Y	1920-66 1960-66	1					1	1				5				2				3	
		1					1					4				2				2	
MARYMOUNT COLLEGE KAN	1920-66 1960-66	2	2									1					1				
		1	1									1					1				
MARYMOUNT MANHATTAN COL N Y	1920-66 1960-66	1					1														
		1					1														
MARYVILLE COLLEGE TENN	1920-66 1960-66	28	6	3	2		19	2	1				23			4	2	1	1	16	
		7	1	2	2		4	2	1			6					1	1		4	
MARYVILLE COLL OF SACRO HT MO	1920-66 1960-66	1	1																		
		1	1																		
MARYWOOD COLLEGE PA	1920-66 1960-66	2					2					4				1	2		1		
		2					2					2					2				
MASSACHUSETTS COLLEGE OF ART	1920-66 1960-66																				
MASS COLLEGE OF OPTOMETRY	1920-66 1960-66											1								1	
MASS COLLEGE OF PHARMACY	1920-66 1960-66	28					28	2					48	32		9	4			3	
		12					12	2				19	11		4	2			2		
MASS INSTITUTE OF TECHNOLOGY	1920-66 1960-66	2191	212	554	72	74	409	107	69	106	910	156	187	135	3	20	85	18	1	8	
		1060	108	271	61	61	116	53	37	51	514	94	137	42		1	33	5	1	2	
MASS MARITIME ACADEMY	1920-66 1960-66																				
MASSACHUSETTS, UNIVERSITY OF	1920-66 1960-66	148	5	12		1	112	9	16	5	14	3	2	391	94	27	62	110	1	97	
		46	1	4		1	27	6	4	4	10	2	1	99	34	9	14	21	1	20	
MAYVILLE STATE COLLEGE N D	1920-66 1960-66	1	1																		
		1	1																		
MCCORMICK THEOL SEMINARY ILL	1920-66 1960-66																				
MCKENDREE COLLEGE ILL	1920-66 1960-66	10	3	1			5				1		6			2				4	
MCMURRY COLLEGE TEX	1920-66 1960-66	9	1	1		1	6	2	1		1		1			1					
		8		1		1	6		1		1		1			1					
MCNEESE STATE COLLEGE LA	1920-66 1960-66	5	1				4	1	2				4	2			2				
		5	1				4		2				4	2			2				
MCPHERSON COLLEGE KAN	1920-66 1960-66	17		4			13	2	4				10	1		2	3			4	
		6		1			5	2	2				2							1	

Doctorates by Field															Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	
2		1		1	1					1		2	2		5 MARY IMMACULATE SEMINARY PA
					2		2							1	4 MARY MANSE COLLEGE OHIO
4	2	2			2	2	1	1		1		1		3	17 MARY WASHINGTON COL OF UNIV VA
1	1				1							1		2	6 MARYCREST COLLEGE IOWA
					1	1	1					1	1	3	7 MARYCREST COLLEGE IOWA
8	4		1	3	13	3	4	2	1	2		1	1	10	39 MARYGROVE COLLEGE MICH
4	2			2	1					1				6	14 MARYGROVE COLLEGE MICH
3	2				5	1	2		1	1		1	1	2	11 MARYKNOLL SEMINARY N Y
2	1				1				1			1	1	1	5 MARYKNOLL SEMINARY N Y
7	2	1	1		1									1	10 MARYKNOLL SEMINARY ILL
6	2	1	1											1	9 MARYKNOLL SEMINARY ILL
														2	2 MARYLAND INST, COLLEGE OF ART
1			1											1	7 MARYLAND STATE COLLEGE
101	55	1	7	17	21	66	22	19	7	6	10	2	14	6	813 MARYLAND UNIVERSITY OF
59	31	1	4	10	13	40	14	9	3	5	7	2	8	6	340 MARYLAND UNIVERSITY OF
2	1	1			8	4	1	2				1		6	20 MARYLMURST COLLEGE OREG
1	1				4	1	1	1						4	11 MARYLMURST COLLEGE OREG
1	1														2 MARYMOUNT COLLEGE CAL
3	2		1		13	2	4	3		2	1	1	1	6	29 MARYMOUNT COLLEGE N Y
1	1				6	3	1	1		1	1			5	17 MARYMOUNT COLLEGE N Y
3	1	1	1		6	2	1	1	1	1			2	2	15 MARYMOUNT COLLEGE KAN
1													1	1	5 MARYMOUNT COLLEGE KAN
															1 MARYMOUNT MAN- HATTAN COL N Y
22	9	4	6	3	39	12	11	4	2	5	1	2	16	5	167 MARYVILLE COLLEGE TENN
5	3	1		1	10	5	2			3			5	1	50 MARYVILLE COLLEGE TENN
2		1			7	3				1	3				13 MARYVILLE COLL OF SACRD HT MO
1		1			1						1				4 MARYVILLE COLL OF SACRD HT MO
5	3	1	1	1	2		1		1				2	1	23 MARYWOOD COLLEGE PA
1													1		8 MARYWOOD COLLEGE PA
					4							4		10	14 MASSACHUSETTS COLLEGE OF ART
					2							2			6 MASSACHUSETTS COLLEGE OF ART
														1	2 MASS COLLEGE OF OPTOMETRY
															1 MASS COLLEGE OF OPTOMETRY
74	20	1	3	38	10	13	5	3	4	1			23	17	76 MASS COLLEGE OF PHARMACY
43	8		3	21	10	11	4	2	4				15	13	31 MASS COLLEGE OF PHARMACY
1					1										2448 MASS INSTITUTE OF TECHNOLOGY
1															1173 MASS INSTITUTE OF TECHNOLOGY
89	48	4	25	9	57	14	29	7	2	2	1	7	3	1	1 MASS MARITIME ACADEMY
44	19	2	13	8	30	9	13	5	2	2		3	1		734 MASSACHUSETTS, UNIVERSITY OF
															242 MASSACHUSETTS, UNIVERSITY OF
															22 MAYVILLE STATE COLLEGE N D
															12 MAYVILLE STATE COLLEGE N D
															2 MCCORMICK THEOL SEMINARY ILL
7	1	2	3	1	2	1	1					6	1	2	40 MCKENDREE COLLEGE ILL
1	1											2	1	1	9 MCKENDREE COLLEGE ILL
					5	1	1				1	2	5	5	29 MCNEESE COLLEGE TEX
					3						1	1	5	5	20 MCNEESE COLLEGE TEX
															10 MCNEESE STATE COLLEGE LA
8	3	1	1	2	9	5		2	1	1		1			10 MCNEESE STATE COLLEGE LA
1					3	1		1				4	4	37	85 MCPHERSON COLLEGE KAN
								1				2	2	10	24 MCPHERSON COLLEGE KAN

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continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
MEADVILLE THEOL SCHOOL ILL	1920-66 1960-66																				
MEDICAL COLL OF SOUTH CAROLINA	1920-66 1960-66												3	2	1						
MEDICAL COLLEGE OF VIRGINIA	1920-66 1960-66	7 3					7 3	1 1					8 2	6 1	1 1	1 1					
MEMPHIS STATE UNIVERSITY	1920-66 1960-66	27 19	4 2	2 2			20 14	5 5	5 5	1 1			19 11	1 1	1 1	9 4	6 5			2 1	
MERCER UNIVERSITY GA	1920-66 1960-66	14 3	1 1	3 1			10 1	2 1					14 7	2 1	1 1	3 1	2 2	1 1		5 1	
MERCY COLLEGE OF DETROIT	1920-66 1960-66	1 1					1 1	1 1					3 3			2 2	1 1				
MERCYHURST COLLEGE PA	1920-66 1960-66	3 3	1 1				2 2														
MEREDITH COLLEGE N C	1920-66 1960-66	2 2					2 2		1 1				3 1			2 1				1 1	
MERRIMACK COLLEGE MASS	1920-66 1960-66	6 5					4 3	3 2		2 2			5 3			5 3					
MIAMI UNIV OHIO	1920-66 1960-66	204 61	16 8	73 21	2 2	5 4	74 18	16 7	13 6	33 11	8 3	2 1	113 25	10 4	2 2	18 2	20 6			63 13	
MIAMI UNIVERSITY OF	1920-66 1960-66	74 46	19 16	4 3		1 1	41 17	8 6	5 3	4 4	6 6		4 4	63 31	9 5	7 4	15 7	11 5	2 2	19 8	
MICHIGAN STATE UNIVERSITY	1920-66 1960-66	288 142	24 15	39 19	5 5	7 5	116 36	18 12	16 8	18 11	91 61	11 7	17 13	553 181	236 75	37 15	82 28	112 33	7 7	79 23	
MICHIGAN TECHNOL UNIV	1920-66 1960-66	130 77	4 3	9 7	2 2	2 2	21 7	3 2	4 2	22 12	74 48	14 6	13 7	13 8	7 5		2 2	2 1		2 2	
MICHIGAN UNIVERSITY OF	1920-66 1960-66	1290 424	125 47	247 80	23 20	14 9	357 82	74 40	32 16	99 28	462 187	124 32	63 25	511 150	72 17	66 15	75 35	96 26	10 7	192 40	
MIDDLEBURY COLLEGE VT	1920-66 1960-66	93 34	8 3	14 6	1 1		55 18	21 14	1 1	11 3	5 4	2 1	35 6	1 1	1 1	10 3	6 6	1 1		16 2	
MIDDLE TENN STATE UNIV	1920-66 1960-66	21 12	1 1	1 1			18 9	4 3	3 3		1 1		9 5			2 1	3 1			4 3	
MIDLAND LUTHER COLLEGE NEBR	1920-66 1960-66	8 8	3 3	1 1			2 5			1 1	1 1	1 1	2 3			1 1				1 1	
MIDWESTERN UNIVERSITY TEX	1920-66 1960-66	8 8					7 5	2 2	1 1	1 1			3 3	1 1			1 1			1 1	
MILES COLLEGE ALA	1920-66 1960-66												2 2							2 2	
MILLERSVILLE STATE COLL PA	1920-66 1960-66												3 2				1 1			2 1	
MILLIGAN COLLEGE TENN	1920-66 1960-66												2 2			1 1				1 1	
MILLIKIN UNIVERSITY ILL	1920-66 1960-66	40 13	2 1	6 4	1 1	1 1	30 7	8 5	1 1	1 1	1 1		18 4			3 2	9 2			6 6	
MILLS COLLEGE CAL	1920-66 1960-66	2 2					2 2						8 2		1 1	2 2	2 1			3 3	
MILLSAPS COLLEGE MISS	1920-66 1960-66	29 11	4 3	4 3			19 7	1 1	4 3	2 1			10 6	1 2	2 2	2 1	2 1			3 2	
MILTON COLLEGE WISC	1920-66 1960-66	7 1		3 3			4 1	1 1					12 1		1 1	2 2	3 3			6 1	
MILWAUKEE SCH OF ENGINEERING	1920-66 1960-66	10 3		1 1	1 1						9 2	9 2									
MINNESOTA UNIVERSITY OF	1920-66 1960-66	896 290	94 31	133 52	5 5	13 12	310 61	78 28	51 13	77 22	282 124	65 19	58 38	815 239	253 76	139 42	194 47	161 41	9 5	119 28	
MINOT STATE COLLEGE N D	1920-66 1960-66													4 3	2 2		1 1	1 1			
MISSISSIPPI COLLEGE	1920-66 1960-66	53 10	3 3	11 1		1 1	38 9	9 3	5 4		1 1	1 1	17 7		2 2	2 2	2 1	2 1	1 1	10 3	
MISSISSIPPI INDUST COLL	1920-66 1960-66	2 1					2 1		1 1												

Doctorates by Field																	Institution of Baccalaureate			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY			EDUCATION	TOTAL ALL FIELDS
1		1			1					1								2	MEADVILLE THEOL SCHOOL ILL	
																		3	MEDICAL COLL OF SOUTH CAROLINA	
																	1	16	MEDICAL COLLEGE OF VIRGINIA	
17 13	9 7	1	2 2	2 2	20 9	10 4	4 3	2 1	3 1		1		3 1	2 1		25 8	111	61	MEMPHIS STATE UNIVERSITY	
15 7	11 5	1	1 1	2 1	26 9	13 5	9 3	1		2	1 1		10 3	1 1	6 2	36 16	115	45	MERCER UNIVERSITY GA	
					2 2	1 1						1 1	1 1			1 1		8	MERCY COLLEGE OF DETROIT	
1	1				2		1	1					2 1		2 1	2	10	1	MERCYHURST COLLEGE PA	
2	1		1		12 1	1	11 1						1 1		1 1	5	25	8	MEREDITH COLLEGE N C	
5 3		1	2 1		1					1							17	11	MERRIMACK COLLEGE MASS	
129 43	52 18	5 2	18 5	34 9	13 6	108 27	35 4	36 13	24 5	2	2	3 2	5 3	22 8	17 8	85 43	661	207	MIAMI UNIV OHIO	
75 40	59 32		1	11 6	3 1	60 33	17 10	21 12	10 3		4 3	3 2	4 2	10 8	6 6	2 1	41 27	323	185	MIAMI UNIVERSITY OF
168 79	66 34	3 3	26 12	57 21	10 6	87 50	26 13	23 13	6 2		6 5	7 3	18 13	30 21	17 12	1 1	164 92	1290	565	MICHIGAN STATE UNIVERSITY
3 2				2 2	1									3 3	2 2	1 1	1 1	150	91	MICHIGAN TECHNOL UNIV
599 194	269 101	35 8	53 19	111 26	79 30	539 181	122 33	150 51	110 40	19 6	49 12	51 22	32 17	86 39	53 28	14 4	301 122	3326	1110	MICHIGAN UNIVERSITY OF
48 17	14 9	2		17 4	11 2	62 25	11 3	26 11	15 6		4 1		6 4	7 4	2 1	3 1	35 13	280	99	MIDDLEBURY COLLEGE VT
11 4	1		3 1	5 1	2 1	10 4	3 1	6 3									44 18	95	43	MIDDLE TENN STATE UNIV
6 1	2		1	1	1	13 2	6 1			2		4 1		1 2	1 1	6 1	33 13	70	18	MIDLAND LUTHER COLLEGE NEBR
1 1				1 1		4		1 1				1 1	1 1				5 5	21	19	MIDWESTERN UNIVERSITY TEX
2		1			1												2	6	2	MILES COLLEGE ALA
7 3	2		1		2 2	8 3	5 3	3									57 29	75	37	MILLERSVILLE STATE COLL PA
6 2	2 1	1 1		3		3 1	3 1										10 2	21	7	MILLIGAN COLLEGE TENN
13 3	4 1		1	2 2	5 2	19 6	2 1	6 2	4 1		1 2	2 4	4 2	4 2			19 6	113	34	MILLIKIN UNIVERSITY ILL
11 1	8 1	1	1	1		13 4	1	4 2	1 1		1		5 3	1 1			16 6	51	13	MILLS COLLEGE CAL
29 15	16 9		4 2	6 2	3 2	33 15	10	9 5	5 1	1 1	4 4	1 1	3 3	13 8		13 8	24 8	138	63	MILLSAPS COLLEGE MISS
2				1 1	9 2	4	1	1 1	1		1 1	1 1	1 1	1 1			4 1	35	6	MILTON COLLEGE WISC
																		10	3	MILWAUKEE SCH OF ENGINEERING
640 220	300 96	22 10	59 17	150 52	82 29	396 129	82 18	110 35	76 25	6	38 15	54 22	25 14	106 41	46 26	18 9	461 189	3374	1108	MINNESOTA UNIVERSITY OF
4 1	1		2 1			1 1	1 1										22 13	31	18	MINDT STATE COLLEGE N D
16 4	7 4		6	1	2	35 17	12 5	4	5 2	3 1	2 1	4		6 1	1 1	5 1	25 11	152	50	MISSISSIPPI COLLEGE
														1		2		5	1	MISSISSIPPI INDUST COLL

Appendix B
continued

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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL. BIOTATIST	ANAT. CYTOL. ENTOMOL. GENET. MICROBIOL.	ECOLOGY. HYDROBIOLOGY	BOT., ZOOL., GEN BIOL
MISS STATE COLL FOR WOMEN	1920-66 1960-66												7 2				3 1		4 1	
MISSISSIPPI ST UNIVERSITY	1920-66 1960-66	115 57	6 2	9 6	2 2		42 11	8 7	6 4	9 4	49 34	7 4	14 9	163 50	75 25	3 1	12 5	49 16	24 3	
MISSISSIPPI, UNIVERSITY OF	1920-66 1960-66	60 19	15 4	14 2			20 6	5 3	1 1	1 1	10 6	5 4	1 1	19 5	1 3	5 1	6 1	3 1	4 1	
MISSOURI, UNIV OF, COLUMBIA	1920-66 1960-66	317 100	28 10	48 16	2 2	11 8	121 24	22 14	13 3	38 9	82 41	10 4	23 13	390 140	170 66	27 15	77 25	48 20	1 1	67 13
MISSOURI, UNIV OF, KANS CITY	1920-66 1960-66	27 11	3 1	2			19 8	1 1	4 2	2 2	1			19 7	1 1	3 2	3 2	7 2		5 1
MISSOURI, UNIV OF, AT ROLLA	1920-66 1960-66	169 89	4 3	23 14	2 2	9 9	20 6	6 4	3 1	20 6	102 60	14 9	4 2	6 2		1 1	5 1			
MISSOURI VALLEY COLLEGE MO	1920-66 1960-66	21 5	3	3 2			11 1				4 2		1 1	3 1			1 1	1 1		1 1
MONMOUTH COLLEGE N J	1920-66 1960-66	1 1					1 1	1 1												
MONMOUTH COLLEGE ILL	1920-66 1960-66	80 15	3 1	2 1	1 1		67 11	10 6	3 2	4 1	4 1	1 1		22 3	2 1	2 1	8 2	5 1		5 1
MONT COLL MIN SCI & TECH	1920-66 1960-66	35 14	1	1			1			14 7	18 7	1								
MONTANA STATE UNIVERSITY	1920-66 1960-66	172 55	8 6	38 16		1 1	76 13	13 7	5 1	4 2	46 18	26 11	7 3	144 49	41 16	11 1	33 10	41 13	3 3	15 6
MONTANA, UNIVERSITY OF	1920-66 1960-66	108 21	11 6	18 5	3 3		51 5	10 2	4 1	24 3	4 2	1		99 30	13 4	11 4	12 5	22 6	4 3	37 8
MONTCLAIR STATE COLL N J	1920-66 1960-66	9 3	3 2				5 1				1			14 6			6 2	2 2		6 2
MOREHEAD STATE COLLEGE MINN	1920-66 1960-66													10 7			1 1			9 6
MORAVIAN COLLEGE PA	1920-66 1960-66	7 4		2 1			5 3	2 1	1 1					13 2				9 2		4 1
MOREHEAD STATE COLLEGE KY	1920-66 1960-66	3		1			2	1						2 1				1 1		1 1
MOREHOUSE COLLEGE GA	1920-66 1960-66	17 14	2 2	3 3		1 1	12 9	2 2	5 4					17 3			3 1	3 1		11 1
MORGAN STATE COLLEGE MD	1920-66 1960-66	5 3	1 1	1 1		1 1	3 1							6 3			4 2			2 1
MORNINGSIDE COLLEGE IOWA	1920-66 1960-66	23 4	4 1	8 2		2 2	10 1	5 1	1		1			10 1	1 1		1 1	1 1		6 1
MORRIS BROWN COLLEGE GA	1920-66 1960-66													2 1						2 1
MORRIS HARVEY COLLEGE W VA	1920-66 1960-66	11 2					11 2	4 2	1					11 5	2 2		1 1	7 3		1 1
MOUNT ANGEL COLLEGE OREG	1920-66 1960-66																			
MOUNT ANGEL SEMINARY OREG	1920-66 1960-66																			
MOUNT HOLYOKE COLLEGE MASS	1920-66 1960-66	82 16	6 2	9 5			65 9	16 7	4 2	2				118 16		11	34 9	23 3	1	49 4
MOUNT MARTY COLLEGE S D	1920-66 1960-66													1						1
MOUNT MARY COLLEGE WISC	1920-66 1960-66	3 1	2 1				1	1						4 1			2 1	1		1
MOUNT MERCY COLLEGE PA	1920-66 1960-66	2 1					2 1							5 3			1 1	2 1		2 1
MOUNT ST AGNES COLLEGE MO	1920-66 1960-66	1					1							2 1				2 1		
MT ST ALPHONSUS SEMINARY N Y	1920-66 1960-66																			
MOUNT ST JOSEPH COLLEGE N Y	1920-66 1960-66	1 1	1 1																	

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
2	2					8	2	4	2				3				6	26	MISS STATE COLL FOR WOMEN
29	1	2	21	4	10	6	6	3	1				10	8	1	37	364	MISSISSIPPI ST UNIVERSITY	
10			7		6		5						7	5		13	143		
40	18	6	10	6	48	23	18	4	1		1		13	6	1	26	206	MISSISSIPPI, UNIVERSITY OF	
12	5		1	1	12		6						6	3		12	66		
269	79	5	33	110	29	177	50	65	30	7	4	13	8	49	25	7	258	1460	MISSOURI, UNIV OF, COLUMBIA
96	30	1	9	46	6	51	20	13	4	1	1	7	6	12	8	1	87	486	
29	14	1	5	2	5	37	12	15	4		1	1	4	5	2	2	28	145	MISSOURI, UNIV OF, KANS CITY
13	4	1	2	1	4	19	6	7	1		1	1	3	3			16	69	
1	1																2	178	MISSOURI, UNIV OF, AT ROLLA
4	2	1	1		6	2	2	1		1			4	1	3	20	58	MISSOURI VALLEY COLLEGE MO	
2	1				2	1							2			4	16		
4	3		1														5	MONMOUTH COLLEGE N J	
3	3																4		
15	4	1	1	5	5	25	5	5	2	4	5	4	5	1	1	4	26	173	MONMOUTH COLLEGE ILL
5	1			1	2	9	2	2		2	2	3	1				13	46	
																	1	36	MONT COLL MIN SCI & TECH
25			23	2	5	1	2			1	1		2	1		31	379	MONTANA STATE UNIVERSITY	
15			13		3		2						1			16	139		
62	30	5	7	10	40	13	8	8	2	2	6	3	18	5	2	41	368	MONTANA, UNIVERSITY OF	
32	19		2	5	15	4	1	2		2	3	3	7	3	1	17	122		
15	1	3	1	8	21	5	6	4			6		1	1		103	163	MONTCLAIR STATE COLL N J	
7	1		1	4	9	4	1				4					52	77		
9	3			1	5	1	2				1	1				36	60	MORRHEAD STATE COLLEGE MINN	
2	1			1	3	1	1									12	24		
6	1	1	1		9		4	1	3	1			3		3	9	47	MORAVIAN COLLEGE PA	
					3		2									4	13		
2		1			5	1	4									14	26	MORRHEAD STATE COLLEGE KY	
2					2		1									8	13		
29	4	12	5	6	15	4	4	2		1	2	2	10	2	6	27	115	MOREHOUSE COLLEGE GA	
12	3	14	1	3	12	1	1					1	5		1	8	44		
10	5	2	1	1	5	2	2				1					19	45	MORGAN STATE COLLEGE MO	
8	4				1		1									9	24		
14	4	4	2	3	28	10	2	4		3	5	4	7	2	4	36	118	MORNINGSIDE COLLEGE IOWA	
2			1	1	7		1	1		1	2	2	1	1		18	32		
					1											5	9	MORRIS BROWN COLLEGE GA	
													1		1	2	3		
7	3	2	2	1	1	5	4					1				6	40	MORRIS HARVEY COLLEGE W VA	
3																4	18		
																3	3	MOUNT ANGEL COLLEGE OREG	
2		2			1					1			1		1	1	5	2	MOUNT ANGEL SEMINARY OREG
1		1			1												2		
60	28	5	3	13	8	114	29	41	25	9	5	3	2	5	3	24	403	MOUNT HOLYOKE COLLEGE MASS	
15	9		1	3	20	1	1	1					1		1	6	74		
1					2											2	7	MOUNT MARTY COLLEGE S D	
					1											1	2		
2	1	1	1		7	1	1	2	1	1	1		2		2	4	22	MOUNT MARY COLLEGE WISC	
1	1				3	1	3	2								4	18	MOUNT MERCY COLLEGE PA	
					1											1	11		
2	1	1	1					1								2	8	MOUNT ST AGNES COLLEGE MO	
2	1															1	4		
1																	2	MT ST ALPHONSUS SEMINARY N Y	
																	1		
																	8	MOUNT ST JOSEPH COLLEGE N Y	
																	4		

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOPHYS,	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
MT ST JOSEPH, COLL, ON OHIO	1920-66 1960-66	2 1					2 1						3 1			1 1	1 1			1 1	
MOUNT ST MARY COLLEGE N H	1920-66 1960-66												1 1			1 1					
MOUNT ST MARYS COLLEGE MO	1920-66 1960-66	11 4		2			8 3	1 1	3 2	1 1			11 7			4 2	5 5			2 2	
MOUNT ST MARYS COLLEGE CAL	1920-66 1960-66	4 1	2 1				2	1	1				2			1	1				
MT ST SCHOLAS- TICA COLL KAN	1920-66 1960-66												4 1			2 1	1			1	
MT ST VINCENT, COLL OF, N Y	1920-66 1960-66	4					4						5 1			4 1				1	
MOUNT UNION COLLEGE OHIO	1920-66 1960-66	55 10	2	4 1			41 6	4 2	5 2	6 3	2		21 6			5 1	12 4			4 1	
MUHLENBERG COLLEGE PA	1920-66 1960-66	57 21	4 1	18 7	3		31 13	9 7	5 3	4			37 14	3		7 4	19 8			8 2	
MULTNOMAH SCH OF BIBLE OREG	1920-66 1960-66																				
MUNDELZIN COLLEGE ILL	1920-66 1960-66	4 2		1			3 2		1 1				9 5	1		4 3	2 1			2 1	
MURRAY STATE COLLEGE KY	1920-66 1960-66	30 18	4 2	7 6			17 8	5 4	1 1	1 1	1		23 10	12 9	2	1	1			7 1	
MUSKINGUM COLLEGE OHIO	1920-66 1960-66	45 8		8			32 7	2 1	5 4	3 1	2	1	15 4	1 1	1	3 1	3 1	1 1		6	
NASHOTAH HOUSE WISC	1920-66 1960-66																				
NATIONAL COLL OF EDUC ILL	1920-66 1960-66																				
NAZARETH COLLEGE N Y	1920-66 1960-66	3 2	1				2 2		2				1							1	
NAZARETH COLLEGE MICH	1920-66 1960-66	3 2	1				2 2		1												
NAZARETH COLLEGE OF KY	1920-66 1960-66	1 1	1 1																		
NEBRASKA, UNIVERSITY OF	1920-66 1960-66	314 97	30 15	37 6	1	1	150 22	38 14	17 5	25 9	72 45	18 15	16 10	396 111	140 48	47 6	44 22	73 21	2 1	90 13	
NEBRASKA WESLE- YAN UNIVERSITY	1920-66 1960-66	41 9	5 2	20 5		2 1	16 2		1					35 5	2	3 1	12 2	6 1		12 1	
NER ISRAEL RAB- BINICAL COL MD	1920-66 1960-66																				
NEVADA, UNIVERSITY OF	1920-66 1960-66	57 26	5 3	13 7	1 1	3 3	21 7	2 1	8 5	10 5	8 4	3 2	1 1	20 9	1 1	1 1	7 3	3 1	1 1	7 3	
NEW BRUNSWICK THEOL SEM	1920-66 1960-66	1		1																	
NEW ENGLAND COLLEGE N H	1920-66 1960-66	1 1					1 1														
NEW ENGLAND COL OF PHARM MASS	1920-66 1960-66	4 3					4 3						10 4		8 4	2					
NEW ENGLD CONS OF MUSIC MASS	1920-66 1960-66																				
NEW HAMPSHIRE, UNIVERSITY OF	1920-66 1960-66	177 52	6 3	21 9	2 1	4 3	104 18	10 5	13 6	25 12	21 10	4 3	4 2	167 58	57 20	11 3	23 11	40 13	2 1	34 10	
NEW HAVEN COLLEGE CONN	1920-66 1960-66																				
NEW MEXICO HIGHLANDS UNIV	1920-66 1960-66	2 2		1 1		1 1	1 1	1 1						3 1	1					2 1	
NEW MEXICO INST OF MIN & TECH	1920-66 1960-66	16 9	1 1	1			5 4	1 1	1 1	5 1	4 2			1 1			1				
NEW MEXICO STATE UNIV	1920-66 1960-66	40 26	6 5	12 12	3 3	1 1	5 1			1	16 8	3 2	4 3	64 24	37 11	2 1	3 2	10 6		12 4	

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
2	1	1			1					1			2	2	2	2	12	MT ST JOSEPH, OHIO	
1					5	2	3						1		1	1	7	MOUNT ST MARY COLLEGE N H	
3	2	1			14	2	1	2	8	1	1	2			6	4	47	MOUNT ST MARYS COLLEGE MO	
6	2	2	1	1	2	2	1	1	1	1		1		1	2	1	20	MOUNT ST MARYS COLLEGE CAL	
3		1	1	1	9	1	3	1	1	2		1	2	2	5	3	23	MT ST SCHOLASTICA COLL KAN	
1					1												8		
11	7	2	2		32	6	6	6	1	10						18	70	MT ST VINCENT, COLL OF, N Y	
5	2	1		1	18	5	7	2	1		1	9		9	29		137	MOUNT UNION COLLEGE OHIO	
22	10	1	5	1	2	53	13	14	14	5	3	3	18	4	13	30	217	MUHLBERG COLLEGE PA	
7	4	2			1	14	2	4	4	1	3		4	1	3	7	67		
2	1			1													2	MULTNOMAH SCH OF BIBLE OREG	
9	6	2	1	1	11	2	6		1	2		1		1	5		39	MUNDELEIN COLLEGE ILL	
7	5	1			8	2	4								3		25		
6	1			4	1	20	3	6		1	4	6	5	3	1	47	131	MURRAY STATE COLLEGE KY	
4	1			3		7	2	1			2	2	3	3		22	64		
32	19	1	2	3	5	31	6	7	5	1	2	10	7	1	3	45	175	MUSKINGUM COLLEGE OHIO	
8	6			1		7	2	1	2		1	2	1	1		8	36		
						1				1							1	NASHOTAH HOUSE WISC	
																	9	NATIONAL COLL OF EDUC ILL	
						6		3		1	2		1		1	3	14	NAZARETH COLLEGE N Y	
						2		2								2	6		
						2		1		2			1		1	1	8	NAZARETH COLLEGE MICH	
						2				2							5	1	
																	1	NAZARETH COLLEGE OF KY	
25	90	10	24	90	22	153	38	40	19	9	15	20	17	38	19	3	257	1420	NEBRASKA UNIVERSITY OF
74	26		6	30	7	50	8	12	9	1	3	7	9	11	6	1	108	451	
36	17		4	2	5	18	5	3	1		3	5	1	7	1	6	58	195	NEBRASKA WESLEYAN UNIVERSITY
5	1			1		2		1			1	1					1	39	
1	1					1	1										2	1	NER ISRAEL RAB-BINICAL COL MO
1	1																1		
22	11		1	9	18	9	4	4				1	5	3		22	144	NEVADA, UNIVERSITY OF	
9	7		1		7	2	2	2				1	1			12	64		
																	1	NEW BRUNSWICK THEOL SEM	
1																	2	NEW ENGLAND COLLEGE N H	
																	14	NEW ENGLAND COL OF PHARM MASS	
						7											7	14	NEW ENGL CONS OF MUSIC MASS
					5							5				4	9		
62	32		4	16	8	34	11	15	3		3	1	1	5	1	1	71	516	NEW HAMPSHIRE, UNIVERSITY OF
23	12		1	6	3	14	2	9	1		2			4			24	175	
																	2	2	NEW HAVEN COLLEGE CONN
6	3				2	3	1	2									12	26	NEW MEXICO HIGHLANDS UNIV
3	1			1	2	1	1	1									7	15	
																		17	NEW MEXICO INST OF MIN & TECH
17	6		4	6	4	1	1	1	2								11	136	NEW MEXICO STATE UNIV
9	3		1	5	3	1	1	1								8	70		

Appendix B
continued

Continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	BOT, ZOOL, GEN BIOL		
NEW MEXICO, UNIVERSITY OF	1920-66 1960-66	102 93	11 4	18 11	5 5	1 1	28 13	5 4	6 5	18 12	27 13	5 4	7 4	31 10	1 3	2 2	7 2	3 1	16 5	
NEW MEXICO JUNIOR COLLEGE	1920-66 1960-66																			
NEW PALTZ, SUNY COLL AT	1920-66 1960-66													3 3			2 2		1 1	
NEW ROCHELLE, COLL OF, N Y	1920-66 1960-66	3					3							9 2		2 2	4 2		3	
NEW SCHOOL FOR SOCIAL RES N Y	1920-66 1960-66																			
NEW YORK INST OF TECHNOLOGY	1920-66 1960-66																			
NEW YORK LAW SCHOOL	1920-66 1960-66																			
NEW YORK MEDICAL COLL	1920-66 1960-66												1		1					
NEW YORK UNIVERSITY	1920-66 1960-66	668 209	99 28	90 27	4 4	6 5	279 60	45 26	44 20	37 7	163 87	23 13	18 12	298 91	4 1	26 9	106 40	72 25	2 2	88 14
NEW YORK JUNIOR COLLEGE	1920-66 1960-66	1 1		1 1		1 1														
NEWARK COLLEGE OF ENGINEERING	1920-66 1960-66	76 45	1 1	6 3	1 1		9 3	1 2			60 38	20 15	10 5							
NEWARK STATE COLLEGE N J	1920-66 1960-66	1					1													
NEWBERRY COLLEGE S C	1920-66 1960-66	12 5		1			11 5	2 1	1 1					1		1				
NEWCOMB COLLEGE LA	1920-66 1960-66	9 2	1 1	2 1	1 1	1 1	6 1		2					5 3		1 1	1 1	2 1	1	
NEWTON COLL OF SACRED HT MASS	1920-66 1960-66													1 1			1 1			
NIAGARA UNIVERSITY N Y	1920-66 1960-66	25 11	2 2	1 1			20 6	4 2	4 3	2 2				5		1	4			
NORTH ADAMS, ST COL AT, MASS	1920-66 1960-66																			
NORTH CAROLINA COLL AT DURHAM	1920-66 1960-66	7 4	2 2				5 2	3 1	1 1					8 2			1 1	1 1	6 1	
N C STATE UNIV AT RALEIGH	1920-66 1960-66	167 112	17 16	21 16		1 1	14 4	1 1	4 3	1 1	114 76	22 9	15 11	150 61	85 35	4 2	19 19	3 2	20 5	
NORTH CAROLINA, UNIVERSITY OF	1920-66 1960-66	264 82	32 11	48 19	6 4	7 7	149 41	35 14	15 8	24 9	11 2	4 1	3 1	109 34	10 2	19 5	17 7	19 10	2 1	42 9
NORTH CAR, U OF GREENSBORO	1920-66 1960-66	2					2							20 5	1 1	1 1	3 2	4 1	11 1	
NORTH CENTRAL COLLEGE, ILL	1920-66 1960-66	35 7	3 1	14 1			17 6	8 4			1 1	1		46 16	2 2	9 2	20 10	6 1	9 1	
NORTH DAKOTA STATE UNIV	1920-66 1960-66	80 31	4 1	3 1			48 16	6 3	13 7	2 2	23 13		10 4	127 52	49 21	4 3	29 16	28 9	1 1	16 3
NORTH DAKOTA, UNIVERSITY OF	1920-66 1960-66	80 28	2 2	14 3		1 1	41 10	6 4	8 3	9 6	14 7	2 1	4 2	30 7	1 1	4 1	13 2	4 1	8 2	
NORTH GEORGIA COLLEGE	1920-66 1960-66	9 3	1 1	2			6 2	1 1						4 2			3 1		1 1	
NORTH PARK COLL & THEO SEM ILL	1920-66 1960-66	3					3							2		1	1			
NORTH TEXAS STATE UNIV	1920-66 1960-66	99 35	19 8	18 9		3 3	54 12	10 3	6 5	2 2	6 4		1	52 17	1 1	3 1	20 5	12 6	1 1	15 4
NORTHEAST LA STATE COLL	1920-66 1960-66	4		1			3 3	1 1	2					1 1	1 1					
NE MISSOURI ST TEACH COLL	1920-66 1960-66	29 4	7 2	7			14 1	1		1 1				14	5		4	1	4	
NORTHEASTERN UNIV MASS	1920-66 1960-66	126 59	6 2	14 6	1 1	4 4	59 25	16 9	12 7		47 26	11 6	8 4	28 10		4	13 8	6		5 2

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOTATIST, ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY BOT, ZOOL, GEN BIOL
NORTHEASTERN STATE COL OKLA	1920-66 1960-66	4 1	2 1				2 1						4 1				1 1	3 1
NORTHERN ARIZONA UNIV	1920-66 1960-66	9 6	1 1				6 3	2 1	1 1				2 1			1 1		1 1
NORTHERN BAPT THEOL SEM ILL	1920-66 1960-66																	
NORTHERN ILL UNIVERSITY	1920-66 1960-66	16 10	3 1				10 7	3 1	1 1	2 1		1 1	32 11	1 1		5 3	8 4	1 1
NORTHERN MICHIGAN UNIV	1920-66 1960-66	9 2	2 1	1 1			3 1		1 1	2 1			13 4	3 2	1 1		3 1	6 1
NORTHERN STATE COLL S D	1920-66 1960-66	5 1					4 1		1 1	1 1			6 1		1 1		2 1	2 1
NORTHLAND COLLEGE WISC	1920-66 1960-66	4 2	1 1				3 1	2 1					8 2	2 1	1 1		3 2	1 1
NW CHRISTIAN COLLEGE ORFG	1920-66 1960-66	1 1		1 1														
NW MISSOURI STATE COLLEGE	1920-66 1960-66	19 7	3 1	5 1	1 1	10 5	3 1	3 1	1 1				10 6	3 2	1 1	2 1	2 1	2 1
NORTHWEST NAZARENE C IOA	1920-66 1960-66	1 1		1 1									3 2		1 1			1 1
NORTHWESTERN COLLEGE WISC	1920-66 1960-66												2 1	1 1				
NORTHWESTERN COLLEGE MINN	1920-66 1960-66												1 1			1 1		
NORTHWESTERN STATE COL OKLA	1920-66 1960-66	10 6	2 1				8 5	2 1	3 1				10 9		1 1	2 1	2 1	5 1
NORTHWESTERN ST COLL OF LA	1920-66 1960-66	15 9	3 2	3 2	1 1		9 5	4 3	2 1				13 4	1 1		2 1	5 4	5 1
NORTHWESTERN UNIVERSITY ILL	1920-66 1960-66	452 158	51 15	65 22	5 5	8 7	170 41	32 13	24 13	27 5	139 75	33 18	29 15	173 50	4 1	30 11	58 21	31 11
NORWICH UNIVERSITY VT	1920-66 1960-66	12 4					8 2	1 1	4 1		4 2		4 2	1 1		1 1	1 1	1 1
NOTRE DAME COLLEGE MO	1920-66 1960-66												1 1			1 1		
NOTRE DAME COLLEGE OHIO	1920-66 1960-66	2 1		1 1			1 1						3 1			1 1		2 1
NOTRE DAME COLL OF, CAL	1920-66 1960-66	1 1					1 1		1 1				2 2			2 1		
NOTRE DAME COLL OF STATEN IS	1920-66 1960-66												2 1					2 1
NOTRE DAME OF MO, COLL OF	1920-66 1960-66	5 2	2 1				3 1	1 1	1 1				4 1		2 1	1 1	1 1	
NOTRE DAME SEMINARY LA	1920-66 1960-66																	
NOTRE DAME, UNIV OF, IND	1920-66 1960-66	372 173	26 11	57 33	1 1	13 11	163 41	64 26	20 8	12 7	114 81	24 14	13 13	52 21	9 6	14 8	12 4	1 1
NYACK MISSION- ARY COLL N Y	1920-66 1960-66																	
OAKLAND CITY COLLEGE IND	1920-66 1960-66	9 2	6 2	2 1			1 1						1 1				1 1	
OAKWOOD COLLEGE ALA	1920-66 1960-66	1 1					1 1	1 1					2 1			1 1		1 1
OBERLIN COLLEGE OHIO	1920-66 1960-66	433 118	47 23	125 32	7 7	12 9	223 50	44 23	37 18	30 9	8 4		1 1	194 61	11 1	13 7	61 23	19 9
OBLETE COLL OF SOUTHWEST TEX	1920-66 1960-66																	
OCCIDENTAL COLLEGE CAL	1920-66 1960-66	63 32	6 2	17 11	4 1	1 1	23 12	5 3	4 3	15 7	2 1	1 1	27 12	2 1	1 1	8 4	8 5	8 2
OGLETHORPE COLLEGE GA	1920-66 1960-66	5 4	1 1				3 2	1 1			1 1		2 1			2 1		

Doctorates by Field																		Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION			TOTAL ALL FIELDS
2	1					6	2				1	2	1					51	67 NORTHEASTERN	
7		2		3	2	5	1	3					1					27	35 STATE COL OKLA	
4				2	2	4	1	2					1					26	49 NORTHERN	
2		1			1	4	2				2		1		3		1	17	32 ARIZONA UNIV	
22	7	1	7	1	4	15	2	3	1		9							95	10 NORTHERN BAPT	
9	2		5		1	8	1	2	1		4							52	3 THEOL SEM ILL	
10	4	1	2	1		8	3		1	2	1	1	1	1				42	180 NORTHERN ILL	
1				1		2		1			1	1	1	1				13	90 UNIVERSITY	
6	1	1		3		5		2	1		2							41	83 NORTHERN	
1				1		2		1			1							21	23 MICHIGAN UNIV	
4	1		1		1									1		1		6	63 NORTHERN	
2	1																	1	26 STATE COLL S D	
						2	1				1		5					5	23 NORTHLAND	
						1							3					1	7 COLLEGE WISC	
						1												3	8 NW CHRISTIAN	
						1												3	5 COLLEGE ORFG	
11	2			5	3	7	2	1	1		2	1	5	3				62	114 NW MISSOURI	
6	1			4		8	2	1	1		1	2	3	3				29	51 STATE COLLEGE	
2	2					6	2	1	1		1	2	1	1	1			14	30 NORTHWEST	
2													1	1				8	20 NAZARENE C IOA	
3	2				1	13	2	1	4	5	1		1		1			5	24 NORTHWESTERN	
2	1					5				1								1	7 COLLEGE WISC	
						4					4		3		3			2	11 NORTHWESTERN	
						1							1		1			2	8 COLLEGE MINN	
2		1				7	3	1	1		1	1	4	1	3			30	63 NORTHWESTERN	
1						1					1							14	31 STATE COL OKLA	
6		3	1			14	2	7			4	1	8	8				63	119 NORTHWESTERN	
						4	2	2			1	1	6	6				35	58 ST COLL OF LA	
325	154	20	28	54	54	335	65	86	39	8	22	60	50	67	27	28	176	1528	NORTHWESTERN	
107	56	6	6	14	18	108	16	31	14		6	20	19	28	13	10	60	511	UNIVERSITY ILL	
1	1					3	2											3	23 NORWICH	
1						1	1											3	11 UNIVERSITY VT	
																			1	NOTRE DAME
																			1	COLLEGE MO
						2	1	1										4	11 NOTRE DAME	
																		3	6 COLLEGE OHIO	
1		1																	4	NOTRE DAME,
																			2	COLL OF, CAL
2	2					6	3	2	1									1	11 NOTRE DAME COLL	
1	1					1		1										1	3 OF STATEN IS	
5			2	3		8	4	1		2								2	24 NOTRE DAME OF	
1				1		3	3												6	MD, COLL OF
2					1														2	NOTRE DAME
2																			2	SEMINARY LA
86	21	2	13	23	25	134	30	57	8	7	25	4	3	31	21	7		49	724 NOTRE DAME,	
42	12		5	15	7	66	15	32	3	1	12	1	2	17	15	1		20	339 UNIV OF, IND	
						1				1								3	4 NYACK MISSION-	
						1												2	3 ARY COLL N Y	
2				1	1	7	4	2				1	1			1		15	35 OAKLAND CITY	
1					2	1												1	6 COLLEGE IND	
																			3	OAKWOOD
																			2	COLLEGE ALA
295	110	9	43	70	52	371	80	91	59	13	33	13	76	32	12	11	153	1478	OBERLIN COLLEGE	
103	38	3	13	23	22	120	30	22	12		8	5	39	6	1	2	39	447	OHIO	
						1				1									1	OBLATE COLL OF
																			1	SOUTHWEST TEX
56	31	2	1	9	13	61	25	7	4	5	11	4	6	6	14	2	12	64	285 OCCIDENTAL	
28	15			4	6	25				3	4	4	2	3	3	2	1	22	122 COLLEGE CAL	
4	2	1			1	4	2		1		1			2		2		6	23 OGLETHORPE	
2						1								1				4	13 COLLEGE GA	

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM. BIOPHYS.	PHYSIOL. BIOPHYS.	ANAT. CYTOL. ENTOMOL. GENET. MICROBIOL. EMBRYOL.	ECOLOGY. HYDROBIOLOGY
OHIO NORTHERN UNIVERSITY	1920-66 1960-66	33 8	1	1			22 5	1	2	7 3		1	20 9	1	9	3	2		5	
OHIO STATE UNIVERSITY	1920-66 1960-66	730 198	39 15	122 37	2	4	292 47	33 13	31 12	39 15	238 84	57 13	37 19	632 161	170 51	73 20	88 26	144 34	5 4	152 26
OHIO UNIVERSITY	1920-66 1960-66	128 39	12 1	17 7	2	2	73 16	10 6	7 4	6 2	20 13	1 1	6 3	72 25	12 3	4 1	9 4	22 10	2 2	23 5
OHIO WESLEYAN UNIVERSITY	1920-66 1960-66	115 31	6 2	23 6	1	1	62 13	14 6	8 5	15 6	9 4	3 1	1 1	57 21	3	2	13 7	11 6	1 1	27 6
OKLAHOMA BAPTIST UNIV	1920-66 1960-66	19 9	3 1	7 2	1	1	8 5	1 1	4 4		1 1	1 1		13 8		1 1	4 2	3 2		5 3
OKLAHOMA CITY UNIVERSITY	1920-66 1960-66	8 2	1 1	2 1			5	1	1				5				1			4
OKLAHOMA COLL FOR WOMEN	1920-66 1960-66	1					1						2		1		1			
OKLAHOMA ST U OF AG & AP SCI	1920-66 1960-66	215 144	28 20	27 16	1	8	46 18	11 9	9 5	10 8	104 42	21 15	20 12	350 164	192 92	26 9	25 13	62 30	2 2	43 18
OKLAHOMA, UNIVERSITY OF	1920-66 1960-66	335 155	36 17	58 26	2	8	86 23	17 9	16 6	45 18	110 71	28 18	28 17	119 43	2 1	20 5	27 13	26 9		44 15
OLD DOMINION COLLEGE VA	1920-66 1960-66	2 2					2 2	1 1	1 1					1 1			1 1			
OLIVET COLLEGE MICH	1920-66 1960-66	20 1	7	6			11 1			1			9 1				1	4		4 1
OLIVET NAZARENE COLLEGE ILL	1920-66 1960-66	5 3	1				4 3	2 2												
MUNICIPAL UNIV OF OMAHA	1920-66 1960-66	30 9	4 1	2 1			22 7	5 1	7 4	1	1		16 10	1	3 1		5 3	5 4		2 2
ONEONTA, SUNY COLL AT	1920-66 1960-66																			
OREGON COLLEGE OF EDUCATION	1920-66 1960-66	1 1	1 1										1		1					
OREGON STATE UNIV OREG	1920-66 1960-66	289 124	22 12	29 10	1	3	124 35	29 10	24 13	22 9	92 58	27 17	8 2	307 117	114 49	21 7	48 18	57 25	6 6	61 12
OREGON, UNIVERSITY OF	1920-66 1960-66	124 45	24 12	21 8	2	2	51 20	8 5	13 11	25 3	3 2		63 19	1	6 2	22 9	14 7	1	19 1	
OSTEOP MED & SURG COLL IOWA	1920-66 1960-66																			
OSWEGO, SUNY COLL AT	1920-66 1960-66																			
OTTAWA UNIVERSITY KAN	1920-66 1960-66	20 5	4 1	4 2	1 1		12 2						15 5	4 2	2	2 1				7 2
OTTERBEIN COLLEGE OHIO	1920-66 1960-66	30 8	5 4	3 1			20 3	2 1	1 1	1	1		25 4		2	8 2	6 1	1	8 2	
OUACHITA BAPT UNIVERSITY ARK	1920-66 1960-66	12 6	1 1				11 5	4 3	2 1				10 5	2 1	1 1		1 1		5 2	
OUR LADY OF CINCINNATI COL	1920-66 1960-66												1 1							1 1
OUR LADY ELMS COLL OF, MASS	1920-66 1960-66	1 1					1 1	1 1					2			1 1				1 1
OUR LADY HOLY CROSS COLL LA	1920-66 1960-66																			
OUR LADY OF THE LAKE COLL TEX	1920-66 1960-66	3 1	1				2 1		1 1				2 1				1 1			1
OWOSSO COLLEGE MICH	1920-66 1960-66																			
OZARKS, COLLEGE OF THE, ARK	1920-66 1960-66	2					2						8 3		1		4 2		3 1	
PACE COLLEGE N Y	1920-66 1960-66																			
PACIF CHRISTIAN COLLEGE CAL	1920-66 1960-66																			

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY			EDUCATION
10 2	2	2	3	3	9	2	3	1			2	1	3	1	1	34	109 29	OHIO NORTHERN UNIVERSITY	
450 135	195 48	8 2	54 17	144 53	37 11	249 69	66 17	50 9	56 9	8 2	14 4	27 17	26 11	75 42	48 32	5	402 142	2538 747	OHIO STATE UNIVERSITY
113 37	65 19	3 2	7 1	21 8	7 4	61 27	16 5	10 5	9 3	3 1	3 1	17 10	3 2	15 9	9 5	3 2	136 53	525 190	OHIO UNIVERSITY
122 45	38 12	2 1	17 7	37 12	27 12	100 23	21 5	27 5	10 2	3 1	16 3	15 4	5 3	37 13	9 4	22 9	82 16	513 149	OHIO WESLEYAN UNIVERSITY
9 8	3 3	1				5 9	4 1	5 4	1 1		1 3			1 1	1 1		18 11	76 46	OKLAHOMA BAPTIST UNIV
5 2			2 1	2 1	1 1	11 4	5 1	1 1			3 1	2 2	7 2			6 1	18 12	54 22	OKLAHOMA CITY UNIVERSITY
						6 1	2 1	2 1				2 1		1 1			18 10	28 12	OKLAHOMA COLL FOR WOMEN
91 41	25 9		9 5	52 23	5 4	30 14	6 3	11 3	1 1		1 1	6 3	5 4	16 9	10 5	2 1	149 72	851 444	OKLAHOMA ST U OF AG & AP SCI
154 63	64 26	7 4	12 5	35 17	28 9	145 60	42 17	58 26	17 6	7 3	2 1	8 3	11 4	35 19	18 10	6 5	135 46	923 386	OKLAHOMA, UNIVERSITY OF
						3 3	3 3											6 6	OLD DOMINION COLLEGE VA
9 1	4 1	1		1 1	1 1	8 4	3 1	1 1	1 1		1 1	1 1					8 1	54 8	OLIVET COLLEGE MICH
3 1	3 1					7 3	2 2	2 1			2 1			5 1	1 1	4 1	9 7	29 15	OLIVET NAZARENE COLLEGE ILL
23 9	15 3		3 3	1 3	4 3	24 18	7 3	8 7	2 2			4 2	3 2	3 3	3 3		41 23	137 72	MUNICIPAL UNIV OF OMAHA
						1 1								1 1			20 15	22 17	ONEONTA, SUNY COLL AT
														1 1	1 1		15 12	18 13	OREGON COLLEGE OF EDUCATION
47 20	9 4		2 1	29 11	2 1	16 8	2 2	4 1	1 1		2 1	7 3		17 11	10 7		88 34	764 314	OREGON STATE UNIV OREG
123 47	43 10	9 7	17 10	33 11	17 7	122 42	47 18	37 10	22 6	2 2	5 2	5 3	4 1	24 11	11 9	4 1	169 63	625 227	OREGON, UNIVERSITY OF
																	1	1	OSTEOP MED & SURG COLL IOWA
2 2	2 2					8 5	6 5	1 1			1 1						48 22	58 29	OSWEGO, SUNY COLL AT
6 3	1 3		3 2	2 1		9 3	2 1	1 1			1 2	5 2		7 3	1 1	6 3	17 6	74 25	OTTAWA UNIVERSITY KAN
15 3	6 2		2 1	5 1	2 1	21 6	6 1	2 2	1 1	1 1	7 5	2 2		9 3	1 2	7 2	31 8	131 32	OTTERBEIN COLLEGE OHIO
4 2			2 1	1 1	1 1	15 7	7 3	4 1			1 1	3 2		4 2	2 2		23 10	68 34	OUACHITA BAPT UNIVERSITY ARK
						4 2	1 2	2 1		1 1							2	7 5	OUR LADY OF CINCINNATI COL
						2		1		1							1	6 4	OUR LADY ELMS COLL OF, MASS
																	1	1	OUR LADY HOLY CROSS COLL LA
2 1	1 1	1				9 2	2 2	3 3		1 1	1 1	2 2		3 3		1 1	6 2	25 10	OUR LADY OF THE LAKE COLL TEX
4 4	4 4																	4 4	OWOSSO COLLEGE MICH
3 1	1 1				2 2	6 2	2 1	2 2			1 1	1 1					9 5	28 11	OZARKS, COLLEGE OF THE, ARK
2 1			1 1	1 1	2 2			1 1			1 1			1 1	1 1		1 1	6 5	PACE COLLEGE N Y
																	1	1	PACIF CHRISTIAN COLLEGE CAL

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
PACIFIC, UNIV OF THE, CAL	1920-66	18					17	2	6		1		9	1	1		2			5	
	1960-66	8					7		5											3	
PACIFIC LUTHER UNIV WASH	1920-66	14	4	4	2		6	3	1				11	1	2	3	2			3	
	1960-66	9	4	2	1		3	1	1				9	1	1	3	2			2	
PACIFIC UNION COLLEGE CAL	1920-66	16	3	4			6	3		2	1		15		5	3	1			6	
	1960-66	5	1	1			1	1		2		1	7		2	3	1			1	
PACIFIC UNIV OREG	1920-66	13	3				8		2		2		4		1		3				
	1960-66	3					2		2		1		1								
PAINE COLLEGE GA	1920-66	1								1			3			2	1				
	1960-66	1											2			2					
PAN AMERICAN COLLEGE TEX	1920-66												1			1					
	1960-66																				
PANHANDLE AGR & MECH COLL OKLA	1920-66	5		1			4	1					6	2		1	3				
	1960-66	2		1			1	1					5				2				
PARK COLLEGE MO	1920-66	55	6	24	1		23	5	1	1	1		21	2	1	5	6			7	
	1960-66	12		1	1		10	4	1		1		6	1		1	3			1	
PARKS COLL OF AERON TECH ILL	1920-66	6	1	1						1	3		1								
	1960-66	6	1	1						1	3		1								
PARSONS COLLEGE IOWA	1920-66	7	2	1			4						8	1		2	1			4	
	1960-66	2	2										3			2	1				
PASADENA COLLEGE CAL	1920-66	4		2		1	2						2			1		1			
	1960-66	4		2		1	2											1			
PATERSON STATE COLLEGE N J	1920-66																				
	1960-66																				
PEABODY INSY OF BALTIMORE MD	1920-66																				
	1960-66																				
PEMBROKE STATE COLLEGE N C	1920-66																				
	1960-66																				
P M C COLLEGES PENNA	1920-66	5					5	1					1				1				
	1960-66	1					1	1													
PENNA COLLEGE OF OPTOMETRY	1920-66												3		1	1				1	
	1960-66																				
PENNSYLVANIA STATE UNIV	1920-66	720	38	88	8	12	300	43	41	57	237	67	19	561	215	31	132	96	5	82	
	1960-66	281	23	44	5	9	69	24	26	25	120	29	17	173	74	37	41	32	3	16	
PENNSYLVANIA, UNIVERSITY OF	1920-66	510	59	94	9	15	238	45	29	6	113	14	43	215	5	53	55	44		58	
	1960-66	171	21	32	8	13	52	30	13	1	65	5	29	58	13	20	18			7	
PEPPERDINE COLLEGE CAL	1920-66	2	1				1	1						2	1			1			
	1960-66	1												1							
PERU STATE COLLEGE NEBR	1920-66	9	3	1			4		1		1		18	2			2	1		13	
	1960-66	1	1										2				2				
PFEIFFER COLLEGE N C	1920-66													1						1	
	1960-66													1						1	
PHILA COLL OF OSTEOPATHY PA	1920-66													1		1					
	1960-66													1		1					
PHILA COLLEGE OF PHARM & SCI	1920-66	59		1			57	11	5		1		115	2	67	11	27			8	
	1960-66	16					16	6	2				48		37	5	4			2	
PHILADELPHIA COLLEGE OF ART	1920-66																				
	1960-66																				
PHILADELPHIA MUS ACADEMY	1920-66	1					1														
	1960-66																				
PHILA COLLEGE TEXTILES & SCI	1920-66	4					4	3													
	1960-66	3					3	3													
PHILANDER SMITH COLLEGE ARK	1920-66													1	1						
	1960-66																				
PHILLIPS UNIV OKLA	1920-66	17	3	8		1	2			2	2		15		1	3	4			7	
	1960-66	6	2	2		1				1	1		8			2				3	
PIEDMONT COLLEGE GA	1920-66															1	2			1	
	1960-66												4			1	1				
PITTSBURGH THEO SEMINARY PA	1920-66																				
	1960-66																				

Doctorates by Field																Institution of Baccalaureate			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION		RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS
25	7	1	3	3	9	18	6	3			1	7	1	4		4	46	120	PACIFIC, UNIV
11	4				4	5								3		3	26	60	OF THE, CAL
5	3					14	6	3		1	4						8	52	PACIFIC LUTHER
3						12	6			1	3						6	39	UNIV WASH
4	1				2	24	9	4	3	1	5	1	3	1	2	24	86	PACIFIC UNION	
6	1			3	2	7	3	1	1		2		1			13	33	COLLEGE CAL	
1					1	6	1				4					24	53	PACIFIC	
5	1		4					1			1					7	13	UNIV OREG	
1			1													4	13	PAINE	
																2	6	COLLEGE GA	
						1		1											
																	2	4	PAN AMERICAN
1				1		2	1				1		1	1		10	4	COLLEGE TEX	
1				1		1										7	25	PANHANDLE AGR &	
27	10		6	6	4	40	9	13	9	2	5	2	13		12	37	193	PARK	
6	1					10	2	3	2		1	1	1			11	46	COLLEGE MO	
1				1		1	1						2	2			10	PARKS COLL OF	
1				1									2				9	AERON TECH ILL	
10	4		2	3	1	7	3	1			3		2		2	19	53	PARSONS	
1			1	1		4	2	1			1					6	16	COLLEGE IOWA	
10	7		3			5	1			2	2		8		8	8	37	PASADENA	
8	6		2			1				1			1		1	6	22	COLLEGE CAL	
1	1					1		1								11	13	PATERSON STATE	
																6	6	COLLEGE N J	
						6						6				3	9	PEARODY INST OF	
						2						2				2	4	BALTIMORE MD	
																1	1	PEMBROKE STATE	
																1	1	COLLEGE N C	
																1	7	P M C COLLEGES	
																1	2	PENNA	
																	3	PENNA COLLEGE	
																	2	OF OPTOMETRY	
284	130	3	41	81	20	105	23	33	16		10	16	6	31	10	6	266	1967	PENNSYLVANIA
108	49		18	25	8	37	8	10	6		4	8	1	15	8	2	107	721	STATE UNIV
362	119	17	29	136	43	365	67	125	79	29	37	7	16	40	16	16	177	1669	PENNSYLVANIA,
89	35	4	3	28	14	88	22	24	22	5	4	4	6	11	4	5	33	450	UNIVERSITY OF
11	7		1	2	1	13	4	2	1		5	1	6		5	28	62	PEPPERDINE	
9	6					6					2	1	2		1	19	38	COLLEGE CAL	
6	2			1	2	10	7		1		2					57	100	PERU STATE	
						2	2									26	31	COLLEGE NEBR	
														1	1	1	3	PFEIFFER	
														1	1	1	3	COLLEGE N C	
																	1	PHILA COLL OF	
																	1	OSTEOPATHY PA	
1	1													2	1	1	178	PHILA COLLEGE	
1														2	1	1	67	OF PHARM & SCI	
																	1	PHILADELPHIA	
																	1	COLLEGE OF ART	
						2						2				1	4	PHILADELPHIA	
						2						2					2	MUS ACADEMY	
																	4	PHILA COLLEGE	
																	3	TEXTILES & SCI	
3	1		1		1									1	1	2	7	PHILANDER SMITH	
2														1		1	4	COLLEGE ARK	
15	7	1	4	1	2	15	5	1	2		3	1	3	12	1	10	33	107	PHILLIPS
10	4		3	1	1	9	3	1			1	1	2	7	1	5	20	60	UNIV OKLA
2	1			1		3	1	1	1					1		1	8	18	PIEDMONT
						1										2	5	COLLEGE GA	
						1	1							1	1		2	2	PITTSBURGH THEO
																			SEMINARY PA

Appendix B
continued

Institution of Baccalaureate		Year of Doctorate	Doctorates by Field																			
			PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL	GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY
PITTSBURGH, UNIVERSITY OF	1920-66	287	34	38	2	4	136	18	15	11	68	18	8	208	3	41	46	46	3	69		
PLATTSBURG, SUNY COLL AT	1960-66	85	12	14	5	3	23	7	5	5	31	9	7	48		17	10	12		6		
PLYMOUTH ST COLL N H	1920-66																					
1960-66																						
POLYTECH INST OF BROOKLYN	1920-66	454	29	63	3	13	169	36	25	1	192	58	40	12		1	10	1				
1960-66		217	28	36	3	12	50	27	15	1	102	22	21	3		1	2					
POMONA COLLEGE CAL	1920-66	182	19	52	4	4	63	12	5	35	13		2	75	7	3	22	10		33		
1960-66		63	9	20	3	4	13	6	3	16	5		2	27	2	1	10	4		10		
PONTIF COLL JOSEPHINUM OHIO	1920-66													1						1		
1960-66																						
PORTLAND STATE COLLEGE OREG	1920-66	5	1				4		4					4						4		
1960-66		5	1				4		4					4						4		
PORTLAND, UNIV OF, OREG	1920-66	30		5			22	8	2		3		1	12		1	8	1		2		
1960-66		16		3			10	6	2		3		1	5		1	4					
POTSDAM, SUNY COLL AT	1920-66													1	1							
1960-66																						
PRAIRIE VIEW A & M COLL TEX	1920-66	3	2								1			16	4	1	4	3		4		
1960-66		3	2								1			10	2		3	2		3		
PRATT INSTITUTE N Y	1920-66	22	2				1		1		19	8	2	2			2					
1960-66		12	1								11	4	1	1			1					
PRESBYTERIAN COLLEGE S C	1920-66	12	1	4	1		7	4						2						2		
1960-66		3		1	1		2	1														
PRINCETON THEOL SEMINARY	1920-66																					
1960-66																						
PRINCETON UNIVERSITY	1920-66	633	61	159	23	17	201	24	27	82	130	41	25	99	1	17	36	13	3	29		
1960-66		258	31	69	20	12	42	13	16	28	88	27	21	42		5	21	7	1	8		
PRINCIPIA COLLEGE ILL	1920-66	16	2	6		1	4		1	3	2	1	1	8	1		1			6		
1960-66		12	1	3		1	3		1	2	1	1		2			1			1		
PROVIDENCE COLLEGE R I	1920-66	57	3	10	1	1	43	11	14		1			30		5	10	11		4		
1960-66		33		5	1	1	28	11	11					14		1	7	4		2		
PUERTO RICO, UNIVERSITY OF	1920-66	43	6	6			17	3	1	1	13	3	1	102	32	12	17	21		20		
1960-66		16	1	1			6	3	1	1	7	1	1	41	18	2	11	3		7		
PUGET SOUND, UNIV OF, WASH	1920-66	35	4	9			16	4	3	4	2			13		1	5		1	6		
1960-66		10		1			6	3	3	2	1			5		1	2		2			
PURDUE UNIVERSITY	1920-66	875	43	97	10	13	215	35	31	3	517	94	91	455	164	73	64	88	8	58		
1960-66		390	21	44	8	7	65	22	14	1	259	41	59	179	68	23	34	31	7	16		
QUEENS COLLEGE N Y	1920-66	176	22	37	3	7	100	33	12	5	12	2	2	57		4	23	19		11		
1960-66		84	10	17	3	6	43	21	8	2	12	2	2	35		2	14	14		5		
QUEENS COLLEGE N CAR	1920-66													1			1					
1960-66																						
QUINCY COLLEGE ILL	1920-66	1					1							5			1		1	3		
1960-66														5			1		1	3		
RADCLIFFE COLLEGE MASS	1920-66	42	10	8			22	1	3	2				42	1	3	18	6	1	13		
1960-66		12	4	3			4	1	3	1				14		1	8	5				
RADFORD COLLEGE VA	1920-66	2	1				1	1						3	1			1		1		
1960-66		2	1				1	1														
RANDOLPH MACON COLLEGE VA	1920-66	50	7	12			31	9	3					9			5	1		3		
1960-66		11	3	1			7	4	3					4			4					
RANDOLPH MACON WOMANS COLL VA	1920-66	16	5	1		1	10	2	1					14			2	5		7		
1960-66		1		1		1								4				2		2		
REDLANDS, UNIV OF, CAL	1920-66	39	3	11		1	18	4	3	6	1			17			6	5		6		
1960-66		15		3		1	7	2	3	2				7			3	2		2		
REED COLLEGE OREG	1920-66	223	38	84	7	12	94	22	10	2	5	1		72	2	3	34	12	2	19		
1960-66		84	20	37	7	8	23	12	7	1	3			29	1	1	13	7	2	5		
REGIS COLLEGE MASS	1920-66	5	2				3	2						2			1	1				
1960-66		3					3	2						1			1					
REGIS COLLEGE COLO	1920-66	27	3				24	7	5					6			3	3				
1960-66		13					10	4	4									2				

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
211 57	108 32	1	29 5	40 11	25 4	168 45	41 9	52 18	33 6	11 1	6 2	21 8	2	25 7	13 4	2 2	235 64	1134 306	PITTSBURGH, UNIVERSITY OF
2	1		1									1					17	20	PLATTSBURG, SUNY COLL AT
1	1																9	11	PLYMOUTH ST COLL N H
4	3		1									2	1				8	480	POLYTECH INST OF BROOKLYN
104 41	34 16	6 2	12 5	23 8	25 7	87 34	28 11	19 9	13 5	1	16 4	4 2	4 3	14 4	3	11 4	62 14	524 183	POMONA COLLEGE CAL
3	2		1			1				1				2		1	3	10	PONTIF COLL JOH- SEPHINUM OHIO
7	3		3		1									1		1	4	21	PORTLAND STATE COLLEGE OREG
10 3	7 3			2	1	5 4		2 1	3 3					2	1		12 9	71	PORTLAND, UNIV OF, OREG
1	1					7	1	1				5	1				20	30	POTSDAM, SUNY COLL AT
5	1	1	2		1	1						1					16	41	PRAIRIE VIEW A & M COLL TEX
2	1																5	20	
						1						1	1				8	34	PRATT INSTITUTE N Y
3	3					11 4	3	5 2	2 1					6 3		5 3	6	40	PRESBYTERIAN COLLEGE S C
														1		1		1	PRINCETON THEOL SEMINARY
251 88	77 29	15 5	20 7	67 19	61 22	512 146	123 28	157 58	91 23	50 10	45 10	4 2	37 14	58 28	16 9	29 18	46 9	1599 571	PRINCETON UNIVERSITY
8	4			3	4	11 8	1	5	2			3		3	3		7	53	PRINCIPIA COLLEGE ILL
11 4	4		3	3	1	27 12	6	8 3	3 2	1	7 1	1	1	5		4	15	145	PROVIDENCE COLLEGE R I
39 16	11 5	2	8	12 1	3	20 5	4		11 4		3	1	1	6	2		57	267	PUERTO RICO, UNIVERSITY OF
21 8	10 3		2	4	4	25 10	5	7 4	2		4	5	2	9	2	6	16	119	PUGET SOUND, UNIV OF, WASH
211 90	95 33	3	10	96 45	6	30 14	8	8 4	4		1	9		28 19	22 16		103	1702	PURDUE UNIVERSITY
168 101	122 78	9	6	21 9	7	116 69	20	34 20	25 4	3	5	12 8	17 12	5	3	2	45	567	QUEENS COLLEGE N Y
5	4		1		1									1		1	1	9	QUEENS COLLEGE N CAR
3	1		2			10 5	4	1		1	4			2	1	1	9	30	QUINCY COLLEGE ILL
102 35	39 18	11 5	14 4	19 4	18 3	124 42	27 7	30 10	39 14	6	8		12 6	4	1	1	29	343	RANDOLPH COLLEGE MASS
1	1					2	1	1									6	14	RADFORD COLLEGE VA
11 4	2			3	5	33 10	10 3	14 5	7 2	1				8		6	12	123	RANDOLPH MACON COLLEGE VA
13 2	8		3			28 4	6	10 2	7 2	5							8	79	RANDOLPH MACON WOMANS COLL VA
58 26	31 17	1	6	8	12 4	49 25	9	14 9	1		2	17 8	4	21 10	2	18	62	246	REDLANDS, UNIV OF, CAL
131 47	40 11	10 4	16 10	29 4	34 16	66 17	22 4	20 5	7	4	10 6	1	2	4		1	26	522	REFD COLLEGE OREG
4	3		1			12 8	2	5	4				1				4	27	REGIS COLLEGE MASS
5	4			1		11 8	3	5	1		1	1		1			9	59	REGIS COLLEGE COLN
2	2																7	32	

Appendix B
continued

		Doctorates by Field																				
Institution of Baccalaureate	Year of Doctorate	<div>PHYSICAL SCIENCES AND ENGINEERING</div> <div>MATHEMATICS</div> <div>PHYSICS AND ASTRONOMY</div> <div>Elementary Particles</div> <div>Solid State</div> <div>CHEMISTRY</div> <div>Organic</div> <div>Physical</div> <div>EARTH SCIENCES</div> <div>ENGINEERING</div> <div>Chemical</div> <div>Electrical</div> <div>BIOLOGICAL SCIENCES</div> <div>AGRICULTURE AND FORESTRY</div> <div>HEALTH SCIENCES</div> <div>BIOCHEM, BIOPHYS,</div> <div>PHYSIOL, BIOTATIST</div> <div>ANAT, CYTOL, ENTOMOL,</div> <div>GENET, MICROBIOL, EMBRYOL</div> <div>ECOLOGY, HYDROBIOLOGY</div> <div>BOT, ZOOL, GEN BIOL</div>																				
RENSSELAER POLY INST N Y	1920-66 1960-66	663 323	35 24	134 64	10 9	24 16	152 52	27 19	29 18	5 4	337 179	68 36	44 29	30 11		4 1	17 7	7 2			2 1	
RHOODE ISLAND COLLEGE	1920-66 1960-66	1					1	1						4 2	1 1		1 1		1		1	
RHOODE ISLAND SCH OF DESIGN	1920-66 1960-66	4 3					4 3	4 3						1 1			1 1					
RHOODE ISLAND, UNIVERSITY OF	1920-66 1960-66	40 51	3 6	8 6	1 1		51 24	12 11	3 3	2 2	26 19	6 4	8 5	145 54	44 19	18 6	16 9	30 11	2 1		35 8	
RICE UNIVERSITY TEX	1920-66 1960-66	389 185	46 23	120 55	10 8	13 13	108 30	23 10	19 12	24 21	91 56	41 23	10 9	53 25	1 1	3 3	22 13	10 6			17 5	
RICHMOND PROF INSTITUTE VA	1920-66 1960-66													3 3			1 1	1 1			1 1	
RICHMOND, UNIV OF, VA	1920-66 1960-66	80 24	7 11	25 11		5 4	43 11	8 5	7 5	1 1	4 1		1 36		2		5 1	8 4	1 1		20 6	
RICKER COLLEGE ME	1920-66 1960-66																					
RIOER COLLEGE N J	1920-66 1960-66																					
RIO GRANDE COLLEGE OHIO	1920-66 1960-66																					
RIPON COLLEGE WISC	1920-66 1960-66	53 16	2 1	27 6	3 3	1 1	17 4	7 4	2		7 5	1 1	1 1	19 7	2	1	5 1	4 3	1 1		6 2	
RIVIER COLLEGE N H	1920-66 1960-66													2 1			1				1 1	
ROANOKE COLLEGE VA	1920-66 1960-66	22 9	3 1	7 3		2 1	11 5	5 2	1 1		1			12 6			5 2	2 1			5 3	
ROBERTS WES- LEYAN COLL N Y	1920-66 1960-66	1 1					1 1		1 1													
ROCHESTER INST OF TECHNOL N Y	1920-66 1960-66	16 16					13 13	5 5	1 1		3 3		1 1	1 1			1 1					
ROCHESTER, UNIVERSITY OF	1920-66 1960-66	356 139	44 18	86 40	8 8	11 10	138 41	36 19	24 15	28 7	60 33	19 11	1 1	113 31		12 5	47 8	28 16			26 2	
ROCKFORD COLLEGE ILL	1920-66 1960-66	3 2	1				2 2							9 2			3 1				6 1	
ROCKHURST COLLEGE MO	1920-66 1960-66	36 20	8 5	12 6	3 2	3 2	12 6	2 2	3 3		4 3	2 2	1 1	4 1			2 1	2				
ROCKMONT COLLEGE COLO	1920-66 1960-66																					
ROCKY MOUNTAIN COLLEGE MONT	1920-66 1960-66	4 1	3 1	1										1							1	
ROLLINS COLLEGE FLA	1920-66 1960-66	16 4	1	2			13 2	2 1						17 5	2 1	3	6 3	1			5 1	
ROOSEVELT UNIVERSITY ILL	1920-66 1960-66	30 12	5 2	5		1	20 8	4 4	3 2					44 28		8 6	14 8	16 11			6 3	
ROSARY COLLEGE ILL	1920-66 1960-66	10 4	1				9 4	2 1	1					2 1				2 1				
ROSE POLYTECH INSTITUTE INO	1920-66 1960-66	49 24	2 1	5 3		1 1	4 1		1		38 19	12 3	8 6	1			1					
ROSEMONT COLLEGE PA	1920-66 1960-66	6 2					6 2	1 1	1 1					1 1				1 1				
RUSSELL SAGE COLLEGE N Y	1920-66 1960-66	1					1							3 1			2 1					
RUST COLLEGE MISS	1920-66 1960-66	1 1	1																			
RUTGERS, THE STATE U, N J	1920-66 1960-66	407 166	23 12	54 17	3 3	6 5	226 82	58 36	33 22	32 20	72 35	1	7 4	444 147	123 34	44 14	90 31	110 49	6 5		71 14	
SACRAMENTO STATE COLLEGE	1920-66 1960-66	9 8	4				4 3	1 1	1 1		1			7 7		1 1	1 1	3 3			2 2	
SACRED HEART COLLEGE KAN	1920-66 1960-66																					

Doctorates by Field																		Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	
19	10	1	5		4	2						1	9	6	2	10	735	RENSSELAER POLY INST N Y
5	2	1			9	6	3									19	38	RHODE ISLAND COLLEGE
					2							2				3	10	RHODE ISLAND SCH OF DESIGN
16	5	1	1	3	5	11	2	6	1		1		4	6		23	293	RHODE ISLAND, UNIVERSITY OF
29	7	1	2	13	4	65	23	21	13	7	1		12	5	5	24	572	RICE UNIVERSITY TEX
15	5			6	2	33	11	10	9	3			7	2	4	6	271	
													1	1		3	7	RICHMOND PROF INSTITUTE VA
69	31	1	10	20	7	62	23	19	9	5	3	2	12	4	6	25	284	RICHMOND, UNIV OF, VA
14	9		1	3	1	18	5	6	3	2			4	1	3	10	82	
																1	1	RICKER COLLEGE ME
1					1	1	1						2	2		12	16	RIDER COLLEGE N J
2	2					1					1		1	1		8	12	RIO GRANDE COLLEGE OHIO
1																3	4	
13	6		2	4	1	12	5	2	2	1	2		1	1		18	116	RIPON COLLEGE WISC
5	3			2		1		1					1	1		6	36	
1	1					2					1					1	6	RIVIER COLLEGE N H
1						1										1	4	
3				1	2	22	6	8	3	2	1	1	4		2	9	72	ROANOKE COLLEGE VA
1				1		6	3	1	1	1						4	26	
1			1			2	1	1								2	6	ROBERTS WFS- L'YAN COLL N Y
						2	1	1								2	5	
																	17	ROCHESTER INST OF TECHNOL N Y
108	75	1	10	12	10	190	41	30	28	1	14	3	20	6	12	75	862	ROCHESTER, UNIVERSITY OF
32	26		2	1	3	68	9	10	8		8	2	5	2	2	22	297	
5	1			2		17	7	4	2	2						10	46	ROCKFORD COLLEGE ILL
3						4	1	2	1							4	15	
6	1			2	2	15	4	7	1	1		2	2	1	1	2	65	ROCKHURST COLLEGE MO
1						9	3	3	1	1		1	2	1		1	39	
1	1															1	2	ROCKMONT COLLEGE COLO
1																1	2	
						4	1		2		1		1		1	9	19	ROCKY MOUNTAIN COLLEGE MONT
						1			1								2	
13	5		4	2	2	20	5	7	4		3		4	3		7	77	ROLLINS COLLEGE FLA
2	1			1		8	3	2	1		1		3	2		5	27	
82	57	2	7	7	8	40	10	8	5		3	2	3	1	2	19	218	ROOSEVELT UNIVERSITY ILL
42	28		4		5	20	4	4	4		2	1	2	1		14	118	
3	1			1	1	17	6	7	2	1		1	1			5	38	ROSARY COLLEGE ILL
1						8	3	3	1							2	16	
																	50	ROSE POLYTECH INSTITUTE IND
1	1					11	2	2	3	3	1		1		1	2	22	ROSEMONT COLLEGE PA
1						5	1		2	2						1	10	
3	1		2			5		2	2		1					11	23	RUSSELL SAGE COLLEGE N Y
1					1											2	4	RUST COLLEGE MISS
197	98		14	47	34	129	48	33	29	2	6	8	25	10	5	140	1342	RUTGERS, THE STATE U, N J
91	51		24	11	59	23	17	11			3	4	10	6	1	46	519	
7	1		2	2	7	3	2				2		2	2		18	50	SACRAMENTO STATE COLLEGE
6				2	5											18	46	
					3	1	1	1								3	3	SACRED HEART COLLEGE KAN

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL
SACRED HEART, C OF THE, P R	1920-66 1960-66																	
SACRED HEART DOM COLL TEX	1920-66 1960-66												1					1
SACRED HEART SEMINARY MICH	1920-66 1960-66																	
ST ALBERTS COLLEGE CAL	1920-66 1960-66																	
ST AMBROSE COLLEGE IOWA	1920-66 1960-66	26 6	4 2	1			21 4	5 5					19 6		1	5 2	3 1	10 3
ST ANDREWS PROFSB COLL N C	1920-66 1960-66												3	1			1	1
ST ANSELMS COLLEGE N H	1920-66 1960-66	12 9					11 8	2 1	3 3	1 1			13 6			1	4 2	2 2
ST AUGUSTINES COLLEGE N C	1920-66 1960-66												2 2				1 1	1 1
ST BASILS COLLEGE CONN	1920-66 1960-66																	
ST BENEDICT, COLL OF, MINN	1920-66 1960-66	2 1		1			1 1						3 1				1 1	2
ST BENEDICTS COLLEGE KAN	1920-66 1960-66	23 8	5 2	4 2		2 2	13 3	4 3		1 1	1 1		12 6	1 1	1 1	2 3	5 3	3 1
ST BERNARD COLLEGE ALA	1920-66 1960-66												2 2					2 2
ST BERNARDINE SIENA COLL N Y	1920-66 1960-66	18 13	1 1	3 2			13 9	6 5	5 3	1 1			8		2	4 1	1	1
ST BERNARDS SEM & COLL N Y	1920-66 1960-66																	
ST BONAVENTURE UNIVERSITY N Y	1920-66 1960-66	26 19	2 1	7 5			17 13	11 9	2 2				18 7		1	5 2	6 4	6 1
ST CATHERINE, COLL OF, MINN	1920-66 1960-66	4 2	2 1				2 1		1 1				6 6		2 2	2 2	1 1	1 1
ST CHARLES BOR- ROMEO SEM PA	1920-66 1960-66												1 1	1 1				
ST CHARLES SEMINARY OHIO	1920-66 1960-66																	
ST CLOUD STATE COLLEGE MINN	1920-66 1960-66	6 2		3 1			2 1		1 1	1 1			14 8	1		3 2	4 2	1 1
ST EDWARDS UNIVERSITY TEX	1920-66 1960-66	8 6	2 2	3 2			2 1	2 1		1 1			2 1			1		1 1
ST ELIZABETH, COLL OF, N J	1920-66 1960-66	2	1				1	1					5 1			1 1		4
ST FIDELIS COLL & SEMINARY PA	1920-66 1960-66																	
ST FRANCIS COLLEGE ME	1920-66 1960-66																	
ST FRANCIS COLLEGE N Y	1920-66 1960-66	14 8	1 1				13 7	2 2	6 6				19 8			5 2	5 2	9 4
ST FRANCIS COLLEGE PA	1920-66 1960-66	12 8		1			10 7	3 3	2 2	1 1	1 1		5 3	1 1	1 1	2 1		1
ST FRANCIS COLLEGE IND	1920-66 1960-66	1 1					1 1											
ST FRANCIS COLLEGE WISC	1920-66 1960-66																	
ST FRANCIS, COLL OF, ILL	1920-66 1960-66	3 1		1 1			2						1 1					1 1
ST FRANCIS SEMINARY WISC	1920-66 1960-66												3 1		1 1			2
ST JOHN COLL OF CLEVELAND	1920-66 1960-66												3 1			2	1 1	

Doctorates by Field																		Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	
					1				1									1 SACRED HEART, C OF THE, P R
																		1 SACRED HEART, DOM COLL TEX
2	2				4		1	1	2			1		1		5	12	SACRED HEART SEMINARY MICH
2	2				1												1	ST ALBERTS, COLLEGE CAL
1	1																1	ST ALBERTS, COLLEGE CAL
10	2	1	2	4	23	6	8	3	2	2	2		2	1	1	5	85	ST AMBROSE, COLLEGE IOWA
5	2				7	1	3	1			2						26	ST AMBROSE, COLLEGE IOWA
					2	1					1						11	ST ANDREWS, PRFSY COLL N C
					1												2	ST ANDREWS, PRFSY COLL N C
3	1				8	3	1			2		1	1		1		40	ST ANSELMS, COLLEGE N H
2	1				5	2	1										24	ST ANSELMS, COLLEGE N H
																	5	ST AUGUSTINES, COLLEGE N C
																	3	ST AUGUSTINES, COLLEGE N C
1	1																1	ST PASILS, COLLEGE CONN
1	1																1	ST PASILS, COLLEGE CONN
3	1	1	1		9	3	4	1	1	1			1		1		21	ST BENEDICT, COLL OF, MINN
1					2	1											7	ST BENEDICT, COLL OF, MINN
9	2		5	1	1	17	4	6	3	1	2	1	4		4		72	ST BENEDICTS, COLLEGE KAN
5	1		3			9	2	4	1		1	1	2		2		35	ST BENEDICTS, COLLEGE KAN
																	5	ST BERNARD, COLLEGE ALA
																	5	ST BERNARD, COLLEGE ALA
4	2				2	5	3	1	1								10	ST BERNARDINE, SEMA COLL N Y
2	1				1	4	3										7	ST BERNARDINE, SEMA COLL N Y
4	3			1	9	3	2			1	3						19	ST BERNARDS, SEM & COLL N Y
1	1				4	2	1				1						8	ST BERNARDS, SEM & COLL N Y
7	4	1	2		30	6	6	1	4	13			6	1	5		108	ST BONAVENTURE, UNIVERSITY N Y
3	2				10	3	5		1	1			2	1	1		44	ST BONAVENTURE, UNIVERSITY N Y
9	8	1			17	3	7	3	1	1		1	2				43	ST CATHERINE, COLL OF, MINN
2	2				5	1		2					1				16	ST CATHERINE, COLL OF, MINN
1				1	2	1				3			14		14		26	ST CHARLES BDR-RNMF SEM PA
					1					1			2		2		9	ST CHARLES BDR-RNMF SEM PA
2	1		1		1		1										5	ST CHARLES SEMINARY OHIO
1	1				1												2	ST CHARLES SEMINARY OHIO
7	4				8	4	2				2						71	ST CLOUD STATE, COLLEGE MINN
1					3	1	1										47	ST CLOUD STATE, COLLEGE MINN
2					3		2				1		2	2			19	ST EDWARDS, UNIVERSITY TEX
2					1		1						2	2			13	ST EDWARDS, UNIVERSITY TEX
9	5		4		17	5	3	3	3	2		1	1			11	45	ST ELIZABETH, COLL OF, N J
3	1				2	1	1						1				12	ST ELIZABETH, COLL OF, N J
1	1				1						1		1		1		3	ST FIDELIS, COLL & SEMINARY PA
1	1																2	ST FIDELIS, COLL & SEMINARY PA
					1	1											1	ST FRANCIS, COLLEGE ME
					1	1											1	ST FRANCIS, COLLEGE ME
6	1		2	1	2	15	6	2	1	2							63	ST FRANCIS, COLLEGE N Y
4	1				3	3				1							26	ST FRANCIS, COLLEGE N Y
4			3	1	3		2				1		2		2		31	ST FRANCIS, COLLEGE PA
3			2	1	1		1										17	ST FRANCIS, COLLEGE PA
					1		1										6	ST FRANCIS, COLLEGE IND
					3					3			1		1		6	ST FRANCIS, COLLEGE WISC
																	3	ST FRANCIS, COLLEGE WISC
					5	1	1	1	1	1		1					12	ST FRANCIS, COLL OF, ILL
					3												8	ST FRANCIS, COLL OF, ILL
6	3	3			6	3	1		2				6		6		24	ST FRANCIS SEMINARY WISC
1	1																2	ST FRANCIS SEMINARY WISC
2	1		1		1		1										9	ST JOHN COLL OF CLEVELAND
																	2	ST JOHN COLL OF CLEVELAND

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL
ST JOHN FISHER COLL INC N Y	1920-66 1960-66	12 11		2 1			10 10						1 1				1 1	
ST JOHNS COLLEGE MD	1920-66 1960-66	24 7	5 3	4 2			9 1	1 1	3 1	3 1		1 1	8 1		1 1	3 1	2 1	2 1
ST JOHNS COLLEGE CAL	1920-66 1960-66																	
ST JOHNS SEMINARY MASS	1920-66 1960-66																	
ST JOHNS UNIVERSITY N Y	1920-66 1960-66	65 33	6 2	7 3	1 1	2 2	51 28	19 14	3 3	1 1			52 25	1 1	20 8	12 8	11 3	8 5
ST JOHNS UNIV MINN	1920-66 1960-66	50 21	4 2	14 9	1 1	3 3	31 9	10 3	8 5	1 1			16 9			5 3	7 5	4 1
ST JOSEPH COLLEGE CONN	1920-66 1960-66	3 2	1 1				2 1						2 1		1 1		1 1	
ST JOSEPH COLLEGE MO	1920-66 1960-66												1 1				1 1	
ST JOSEPH, COLL OF, MASS	1920-66 1960-66																	
ST JOS ON RIO GR, C OF, N M	1920-66 1960-66												1 1					1 1
ST JOSEPHS COLLEGE ME	1920-66 1960-66																	
ST JOSEPHS COLLEGE PA	1920-66 1960-66	52 34	1 1	15 11		5 5	36 22	11 6	9 7				18 10		3 2	7 3	4 3	4 2
ST JOSEPHS COLLEGE IND	1920-66 1960-66	20 15	3 2				9 7	4 3	1 1	8 6			6 5		1 1	1 1	3 3	1 1
ST JOSEPHS COL FOR WOMEN N Y	1920-66 1960-66												2 1			1 1		1 1
ST JOSEPHS SEM & COLLEGE N Y	1920-66 1960-66	1							1				1 1				1 1	
ST JOSEPHS SEM OF WASH D C	1920-66 1960-66																	
ST LAWRENCE UNIVERSITY N Y	1920-66 1960-66	52 22	5 3	10 5		2 1	25 8	9 4	5 2	10 5	2 1	1 1	19 4	2 1		8 1	4 1	5 1
ST LOUIS COLL OF PHARMACY	1920-66 1960-66	8 4					8 4						12 5		9 5	1 1		2 1
ST LOUIS INST OF MUSIC MO	1920-66 1960-66																	
ST LOUIS UNIVERSITY	1920-66 1960-66	144 57	23 12	27 8	2 1	3 2	60 17	8 4	8 3	22 10	12 10	4 4	51 16		5 4	16 8	14 3	16 1
ST MARTINS COLLEGE WASH	1920-66 1960-66	7 4					6 3	2 1	1 1		1 1		1 1					1 1
ST MARY COLLEGE KAN	1920-66 1960-66	5	1				4		1				2 1				1 1	1 1
ST MARY, COLL OF, NERR	1920-66 1960-66												1 1				1 1	
ST MARY OF THE LAKE SEM ILL	1920-66 1960-66	2	1	1									1					1
ST MARY OF THE PLAINS COL KAN	1920-66 1960-66																	
ST MARY SPRNGS, COLL OF, OHIO	1920-66 1960-66	1					1 1	1 1					3 1				1 1	2 1
ST MARY OF THE WOODS COLL IND	1920-66 1960-66	2 1					2 1						1			1		
ST MARYS COLLEGE IND	1920-66 1960-66	5 1					5 1	2 1	1 1				2 2				2 2	
ST MARYS COLLEGE MICH	1920-66 1960-66	1					1											
ST MARYS COLLEGE MINN	1920-66 1960-66	29 15	1 1	6 5		2 2	21 9	9 7		1 1			20 7		3 1	5 2	3 1	9 3

Doctorates by Field																	Institution of Baccalaureate
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	
1	1					1		1									16 ST JOHN FISHER 15 COLL INC N Y
12	4	2	1	5	21	3	3	4	3	6		3	1	1	6		74 ST JOHNS 23 COLLEGE MO
1	1		1	2	1	1	1	1	1	1		2		2	1		6 ST JOHNS 5 COLLEGE CAL
1				1	5	1	1	1	1	2		3		3	5		14 ST JOHNS 7 SEMINARY MASS
37	18	7	4	7	96	33	29	9	2	18	2	20	3	3	88		358 ST JOHNS 157 UNIVERSITY N Y
16	9	4	1	1	33	11	11	2		8	1	7	1	1	43		
18	5	2	4	5	25	10	6	1	2	3	1	2	7	1	5	15	131 ST JOHNS 66 UNIV MINN
10	3	1	1	1	14	5	1	1	2	1		1	3	1	1	9	17 ST JOSEPH 10 COLLEGE CONN
3	1				2	1	1	1								3	17 ST JOSEPH 7 COLLEGE MO
2	2				2		1		1				1		1	11	2 ST JOSEPH, 2 COLL OF, MASS
2	2															4	6 ST JNS ON RIO 6 GR, C OF, N M
1				1	2	1	1			1						2	
1				1	2	1	1			1							
1		1			3	1	1			1						2	6 ST JOSEPHS 5 COLLEGE ME
24	17	1	3	3	9		6			3			1	1	7		111 ST JOSEPHS 74 COLLEGE PA
19	15		2	2	6		4			2			1	1	4		
8	1	2	3	2	12	1	4	1	1	5		11	1	10	2		59 ST JOSEPHS 26 COLLEGE IND
7	3		2	1	19	6	11	2							12		40 ST JOSEPHS COL 16 FOR WOMEN N Y
4	2		2		6	2	3	1							5		
6	2	3		1	31	9	4	1	1	15		14		13	11		64 ST JOSEPHS SFM 12 COLLEGE N Y
2	1	1			5	2				2						4	
													2	2			2 ST JOSEPHS SEM 2 OF WASH D C
26	16	6	2	1	15	3	8	1		1	2	3	1	1	32		147 ST LAWRENCE 46 UNIVERSITY N Y
10	7	1	1	1	6		5			1		1			3		
																	20 ST LOUIS COLL 9 OF PHARMACY
					2						2						2 ST LOUIS INST 2 OF MUSIC MO
87	30	23	24	8	160	50	40	12	27	26	4	12	6	6	46		500 ST LOUIS 191 UNIVERSITY
39	19	8	5	5	55	18	19	4	7	5	2	4	2	2	20		
3	1	1		1	4	2	2			1	1						15 ST MARTINS 8 COLLEGE WASH
1	1				6	1	2	1		3			1		5		20 ST MARY 4 COLLEGE KAN
1	1				1	1	1			1					1		3 ST MARY, 2 COLL OF, NEBR
3		2	1		9	1	4		1	2		1	1		7		23 ST MARY OF THE 8 LAKE SEM ILL
2					4		3								1		1 ST MARY OF THE 1 PLAINS COL KAN
6	4	2			11	5	2	1	1	1		1	1		4		26 ST MARY SPRNGS, 13 COLL OF, OHIO
3	2				4	2	1					1	1		3		
1		1			15		5	3	2		2	2	2	1	2		23 ST MARY OF THE 8 WOODS COLL IND
1				1	22	4	8	3	3	3		1	6	6	7		43 ST MARYS 14 COLLEGE IND
3		3			1		2		1				1	1	5		5 ST MARYS 2 COLLEGE MICH
1		1			1												
7	4	1	2		8		5			3		2	1	1	6		72 ST MARYS 35 COLLEGE MINN
6	3				4		3			1		1	1		2		

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL
ST MARYS COLLEGE KAN	1920-66 1960-66																	
ST MARYS COLLEGE KY	1920-66 1960-66																	
ST MARYS COLL OF CALIFORNIA	1920-66 1960-66	11 4		3 1	1 1		8 3	3 2	2 1					3 3		2 2		1 1
ST MARYS DOMINICAN C LA	1920-66 1960-66	1 1	1 1										1 1			1 1		
ST MARYS SEMINARY CONN	1920-66 1960-66																	
ST MARYS SEMINARY MO	1920-66 1960-66	1 1					1 1						2			1		1
ST MARYS SEM C UNIVERSITY MO	1920-66 1960-66																	
ST MARYS UNIV OF SAN ANTONIO	1920-66 1960-66	33 22	4 3	17 12	1 1	5 4	11 6	1 1	6 5		1 1		1 1			1 1		
ST MEINRAD SEMINARY INO	1920-66 1960-66	2 1					2 1		1 1				1					1
ST MICHAELS COLLEGE VT	1920-66 1960-66	14 7	1				13 7	1	2 2				11 6		1	5 2	2 2	3 2
ST NORBERT COLLEGE WISC	1920-66 1960-66	11 4	2 1	2 1			5 1		3 1	2 1			15 6	4	1	2 2	3 3	5 1
ST OLAF COLLEGE MINN	1920-66 1960-66	153 58	9 4	33 13	2 1	5 4	109 39	41 24	9 6		2 2		64 22	5 2	4 1	25 9	7 4	23 6
ST PATRICKS COLLEGE CAL	1920-66 1960-66																	
ST PAUL BIRLE COLLEGE MINN	1920-66 1960-66																	
ST PAUL SEMINARY MINN	1920-66 1960-66																	
ST PAULS COLLEGE VA	1920-66 1960-66																	
ST PAULS COLLEGE D C	1920-66 1960-66																	
ST PETERS COLLEGE N J	1920-66 1960-66	38 23	4 4	5 2		1 1	29 17	10 9	8 7				26 12		1 1	14 9	5 2	6
ST PIUS X SEMINARY N Y	1920-66 1960-66																	
ST PROCOPIUS COLLEGE ILL	1920-66 1960-66	25 10	1 1	16 7		1 1	8 2	4 2	1				3		1	1		1
SAINT ROSE, COLL OF, N Y	1920-66 1960-66	3 1	1 1				2 1	1					3 1		1		1	1 1
ST SCHOLASTICA, COLL OF, MINN	1920-66 1960-66	1 1					1 1	1 1					1					1
ST TERESA, COLL OF, MINN	1920-66 1960-66	7 3	2 1	2			3 1	1					3 1			2 1		1
ST THOMAS, COLL OF, MINN	1920-66 1960-66	77 29	7 1	5 3	1 1	1	61 22	25 13	7 3		4 3	1 1	35 16	3 1	5 2	14 9	8 3	5 1
ST THOMAS, UNIV OF, TEX	1920-66 1960-66	7 7		2 2			5 5	3 3	2 2				2 1				1 1	1
ST THOMAS SEMINARY COLO	1920-66 1960-66																	
ST VINCENT COLLEGE PA	1920-66 1960-66	34 15		1			33 15	9 7	5 5				13 4			4 2	4 2	5
ST XAVIER COLLEGE ILL	1920-66 1960-66	4	2				2	1					4 1		1 1		2	1
SALEM COLLEGE W VA	1920-66 1960-66	5					4			1			6 1		1 1		1	4
SALEM COLLEGE N C	1920-66 1960-66	2					2											

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Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOPHYS,	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
SALISBURY STATE COLLEGE MO	1920-66 1960-66																				
SALEM, STATE COLL AT, MASS	1920-66 1960-66											1								1	
SAM HOUSTON STATE COLL TEX	1920-66 1960-66	8 3	6 3				2					23 15	5	2	5	7				3	
SAMFORD UNIVERSITY ALA	1920-66 1960-66	36 8	4 3	4			26 3	5 1	5 2		2	2	15 5		5 1	2 1	1			7	
SAN DIEGO STATE COLLEGE	1920-66 1960-66	54 32	10 9	6 3	1		25 15	8 7	8 5	6 2	7 3	1	55 23	5 3	2 1	13 4	12 7	1		22 8	
SAN DIEGO, UNIV OF, WOMEN	1920-66 1960-66												1				1				
SAN FERNANDO VAL ST COL CAL	1920-66 1960-66												1							1	
SAN FRANCISCO COLL FOR WOMEN	1920-66 1960-66												3 1			1 1	1			1	
SAN FRANCISCO STATE COLLEGE	1920-66 1960-66	9 7	1 1	1 1	1		7 5		1 1				19 14		4 3	7 6	3 3			5 2	
SAN FRANCISCO THEOL SEM	1920-66 1960-66																				
SAN FRANCISCO, UNIVERSITY OF	1920-66 1960-66	26 13		8 5	3 3	3 1	18 8	6 5	1 1				19 8			14 7	2 1			3	
SAN JOSE STATE COLLEGE CAL	1920-66 1960-66	72 31	13 9	4 1			39 8	9 4	8 3	5 3	11 10		2 2	75 35	2	2	10 5	37 21	2 1	22 5	
SAN LUIS REY COLLEGE CAL	1920-66 1960-66																				
SANTA CLARA, UNIVERSITY OF	1920-66 1960-66	32 18		6 5	1 1	1 1	13 6	3 2	3 3	1 1	12 6		5 3	6 4			2 1	1 1		2 1	
SANTA FE, COLLEGE OF	1920-66 1960-66	1 1	1 1										1 1			1 1					
SARAH LAWRENCE COLLEGE N Y	1920-66 1960-66	1					1						3 1		1	1 1					
SAVANNAH STATE COLLEGE GA	1920-66 1960-66	1					1						2 1	1		1 1					
SCARRITT COLL F CHRIST TENN	1920-66 1960-66																				
SCHOOL OF ART INST CHICAGO	1920-66 1960-66	1								1											
SCRANTON, UNIVERSITY OF	1920-66 1960-66	50 15		20 5			29 9	6 5	3 1		1 1		1 1	51 23		5 2	23 12	17 7		6 2	
SCRIPPS COLLEGE CAL	1920-66 1960-66												2				1			1	
SEATTLE PACIFIC COLLEGE	1920-66 1960-66	14 9	1 1	7 4	3 3		6 4	3 2	1 1				6 4			4 2	1 1			1 1	
SEATTLE UNIVERSITY	1920-66 1960-66	24 16	5 3	3 3	2 2		9 4	1 1	2 1		7 6	3 2	3 3	1 1						1 1	
SETON HALL UNIVERSITY N J	1920-66 1960-66	21 13	2 2				18 10	11 8	3 2		1 1	1 1		21 3			12 3	3		6	
SETON HILL COLLEGE PA	1920-66 1960-66	3 1					3 1						14 5		3 1	2	5 4			4	
SHAW UNIVERSITY N CAR	1920-66 1960-66												4 2		2 2		2				
SHELTON COLLEGE N J	1920-66 1960-66																				
SHENANDOAH CONS OF MUSIC VA	1920-66 1960-66																				
SHEPHERD COLLEGE W VA	1920-66 1960-66	3 2					3 2	3 2					3 3		1 1	1 1				1 1	
SHERWOOD MUSIC SCHOOL ILL	1920-66 1960-66																				

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
3 1	1	1			2		1					1						6	6 SALISBURY STATE 5 COLLEGE MD
9 3	3 1		3 2	1	10 1	5 1	5						3 1	2				28 13	34 SALFM, STATE 17 COLL AT, MASS
12 5	5 1		2 1	2	1 16 11	5 4	3 1	4 2		4 4		7 3	2		4 2			52 28	105 SAM HOUSTON 51 STATE COLL TEX
67 41	39 25	3 1	9 9	7 2	5 3	42 20	13 6	11 4	7 3		10 7	1	7 4	5 3	1 1			74 36	121 SAMEORO 49 UNIVERSITY ALA
					1			1											299 SAN DIEGO 156 STATE COLLEGE
																			2 SAN DIEGO, 1 UNIV OF, WOMEN
1 1				1 1	1 1	1 1												1 1	4 SAN FERNANDO 4 VAL ST COL CAL
					19 4	5 4	4 3	9 3		1 1								5 1	27 SAN FRANCISCO 6 COLL FOR WOMEN
47 33	21 17	1 1	9 4	5 2	7 6	27 18	6 2	4 3	4 4	4 2	1 1	8 6	1					110 51	213 SAN FRANCISCO 123 STATE COLLEGE
					2 1			1		1 1									2 SAN FRANCISCO 1 THFOL SEM
9 7	2 2		1 1	2 2	4 2	12 6	8 5	2 1	1 1				2 2	2 2				15 9	83 SAN FRANCISCO, 45 UNIVERSITY OF
58 37	36 27	2 2	4 1	7 3	6 2	47 24	15 4	7 5	4 4	2 1	2 2	10 5	7 5	8 5	6 5	2		155 66	415 SAN JOSE STATE 198 COLLEGE CAL
1 1	1 1					5 4	3 3	1 1			1 1							1 1	7 SAN LUIS REY 6 COLLEGE CAL
6 5	1 1			4 3	1 1	9 7	4 3	1 1		4 3								7 6	60 SANTA CLARA, 40 UNIVERSITY OF
						2 2	2 2												4 SANTA FE, 4 COLLEGE OF
10 7	7 6	1			1	4 1	3 1	1					1					3 1	22 SARAH LAWRENCE 10 COLLEGE N Y
3				3		2		2						1 1	1 1			6 5	15 SAVANNAH STATE 7 COLLEGE GA
1			1											1		1		1	3 SCARRITT COLL F CHRIST TENN
1		1				14 8			1			7 4	6 4					5 4	21 SCHOOL OF ART 12 INST CHICAGO
12 1	7 1		3	2		19 5	3	9 2	2 1	2 1	3 1			3 2	2 2	1		11 4	146 SCRANTON, 50 UNIVERSITY OF
3 2	1				2 2	4 3	1 3	3 3						1 1		1 1		1 1	11 SCRIPPS 7 COLLEGE CAL
11 5	5 2		5 3	1		10 4	2	1 5				2 2		4 4	2 1	3 3		18 5	67 SEATTLE PACIFIC 31 COLLEGE
15 11	6 5		4 3	2	3 3	7 4	2 1	1		3 2		1 1		2 2	1 1	1 1		8 7	57 SEATTLE 41 UNIVERSITY
21 12	10 8		5 1	2 2	4 1	27 12	9 4	7 3	3 1	4 2	3 1	1 1		8 4	1 1	5 3		50 26	148 SETON HALL 70 UNIVERSITY N J
7 1	5 1		1 1			11 3	1	5 2	3 1	2								1 1	36 SETON HILL 11 COLLEGE PA
6 2	1 1		2 2	1	2 1	7 1	2	4 1	1 1				1 1		1 1			6 2	24 SHAW UNIVERSITY 9 N CAR
						3 3			1 1	2									5 SHELTON 4 COLLEGE N J
						1 1						1 1						2	3 SHENANDOAH CONS 3 OF MUSIC VA
2 2	1 1			1 1	4 2	2 1	1				1 1							7 2	19 SHFPHRD 11 COLLEGE W VA
						1 1						1 1							1 SHERWOOD MUSIC 1 SCHOOL ILL

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																				
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIOPHYS,	ANAT, CYTOL, ENTOMOL,	GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
SHIMER COLLEGE ILL	1920-66 1960-66	4		3	1		1	1					1						1			
SHIPPENSBURG STATE COLL PA	1920-66 1960-66	3	3										6		1	2				2		
SHORTER COLLEGE GA	1920-66 1960-66												1			1						
SIENA COLLEGE TENN	1920-66 1960-66												1			1						
SIENA HEIGHTS COLLEGE MICH	1920-66 1960-66	6	2				4	1					1			1						
SIMMONS COLLEGE MASS	1920-66 1960-66	16					16	1	1				22	1	11	6				4		
SIMPSON BIBLE COLLEGE CAL	1920-66 1960-66	2					2	1					7		3	3				1		
SIMPSON COLLEGE IOWA	1920-66 1960-66	26	6	4	1	1	10	3	1	4	2	1	21	4	1	1	5	4		7		
SIOUX FALLS COLLEGE S D	1920-66 1960-66	6	1				5	3					10		2	2		1	5			
SKIDMORE COLLEGE N Y	1920-66 1960-66	1					1						2			1			1			
SLIPPERY ROCK STATE COLL PA	1920-66 1960-66	1		1									11	1			1			9		
SMITH COLLEGE MASS	1920-66 1960-66	40	5	7			21	3		7			77	1	12	22	15		27			
SOUTH, UNIV OF THE, TENN	1920-66 1960-66	36	5	9			22	2	4				11	1	1	3	4		2			
SOUTH CAROLINA STATE COLLEGE	1920-66 1960-66	2					2	1	1				4	1		1			2			
SOUTH CAROLINA, UNIVERSITY OF	1920-66 1960-66	104	12	12	2	2	47	5	10	5	28	10	6	33	2	9	8	1	1	12		
S O SCHOOL OF MINES & TECH	1920-66 1960-66	116	9	16	2	3	34	6	6	13	44	8	8	3	1		2					
SOUTH DAKOTA STATE UNIV	1920-66 1960-66	66	2	14	1	1	23	3	2	2	25		7	159	57	17	31	36		18		
SOUTH DAKOTA, UNIVERSITY OF	1920-66 1960-66	61	6	8			39	4	11	5	3			36	2	6	7	10	1	10		
SOUTHEAST MO STATE COLLEGE	1920-66 1960-66	48	3	12	2	1	32	9	8		1			16	1		6	4		5		
SOUTHEASTERN MASS TECH INST	1920-66 1960-66	18	1				15	7	5		2		1									
SOUTHEASTERN LOUISIANA COLL	1920-66 1960-66	15	3				12	2	3					12	7		2	2		1		
SOUTHEASTERN STATE COL OKLA	1920-66 1960-66	9	3				4		1	1	1	1		7	1			2		4		
SOUTHEASTERN UNIVERSITY D C	1920-66 1960-66	1					1	1						1		1						
SOUTHERN BAPT THEOL SEM KY	1920-66 1960-66																					
SOUTHERN CALIF COLLEGE	1920-66 1960-66																					
SOUTHERN COLL OF OPTOM TENN	1920-66 1960-66													1		1						
SOUTHERN CALIF, UNIVERSITY OF	1920-66 1960-66	125	13	14	2	1	36	8	7	6	20	42	9	10	7	87	19	2	12	33	22	18
SOUTHERN CONN STATE COLLEGE	1920-66 1960-66	1					1	1						1						1		
SOUTHERN ILLINOIS UNIV	1920-66 1960-66	82	11	3			60	9	5	5	3		1	58	15	3	9	9		22		
SOUTHERN METHOOD UNIVERSITY TEX	1920-66 1960-66	127	20	20	1	2	35	10	4	23	29		9	40	15	4	3	7	9	1	16	

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		
2	1			1	1	1						1						9	SHIMER COLLEGE ILL
4	1			1	4	2	2					3	3		52			72	SHIPPENSBURG STATE COLL PA
1					3	1	1	2									3	7	SHORTER COLLEGE GA
3	1	1	1		2	1	1										1	3	SIENA COLLEGE TENN
2					11	4	3		2	1		1	2		2		9	29	SIENA HEIGHTS COLLEGE MICH
					2	1			1								3		
9	4		2	3		4		2	2				6	1	1		13	70	SIMMONS COLLEGE MASS
2	1			1		1		1					3				1	22	
						1		1					1		1		1	3	SIMPSON BIBLE COLLEGE CAL
16	4	1	1	8	2	22	8	4		2	3	1	6	2	3		24	115	SIMPSON COLLEGE IOWA
4				2		5		2			1		1		1		5	25	
6			5	1	7	2		1			4		6	1	5		7	42	SINOX FALLS COLLEGE S D
2			2		2						2		2		2		3	12	
3	2	1	1		3		2				1		1				2	12	SKIDMORE COLLEGE N Y
1					1						1							5	
5	2			1		7	4	2			1						64	88	SLIPPERY ROCK STATE COLL PA
1	1			5		3		1									40	47	
85	47	8	8	11	8	145	45	36	35	7	9	2	10	8		4	32	387	SMITH COLLEGE MASS
15	7			3	3	38	12	9	10		1	2	4	2			12	93	
13	2	2		4	5	49	13	23	7	2	2		5		5		3	117	SOUTH, UNIV OF TENN
8				1	3	23		7	4	1	2		4		4		1	51	
2			1			2	1		1				2		2		23	35	SOUTH CAROLINA STATE COLLEGE
1						1							1		1		15	21	
49	24	2	5	12	5	62	17	26	14	1	3	1	5	1	2		34	287	SOUTH CAROLINA, UNIVERSITY OF
18	10			5	2	15	6	5	2	1	1		2	1			14	96	
2	1																		
1																			
39	3	1	4	28	2	5	1	2			2		6				24	299	SOUTH DAKOTA STATE UNIV
22	2		2	15	2	2	1	1					6				13	125	
28	13		2	5	8	39	14	7		1	12	1	8	3	2		28	200	SOUTH DAKOTA, UNIVERSITY OF
9	4		1	2	13	13	6	3	4		1		3	2	1		11	63	
13	5		1	4	2	25	9		1		13	2	3	1			87	192	SOUTHEAST MO STATE COLLEGE
5	2			2	9	9	2		1		5	1	1				26	64	
													1	1				19	SOUTHEASTERN MASS TECH INST
													1	1				14	
5			3	1		5	2		1		1	1					11	48	SOUTHEASTERN LOUISIANA COLL
3			1			3	2				1						8	30	
4	2	1			1	10	5	2			2	1					59	89	SOUTHEASTERN STATE COL OKLA
2					2	2	1										23	34	
																	2	4	SOUTHEASTERN UNIVERSITY O C
1			1			2			1	1								3	SOUTHERN BAPT THEOL SEM KY
1																			
1					1								2		2		1	4	SOUTHERN CALIF COLLEGE
																		2	
																		1	SOUTHERN COLL OF OPTOM TENN
208	98	4	30	30	42	141	34	21	25	5	11	25	18	34	8	18	204	799	SOUTHERN CALIF, UNIVERSITY OF
72	36		8	12	14	47	9	9	9	1	3	9	6	6	2	3	89	294	
1	1					2		1	1					1		1	27	33	SOUTHERN CONN STATE COLLEGE
						1		1						1		1	18	22	
75	27	1	3	19	16	50	16	6	7	3		11	7	7	6	1	157	429	SOUTHERN ILLINOIS UNIV
25	12	1	1	6	3	20	2	5	3			9	1	3	2		66	181	
88	50	1	8	14	8	75	21	22	13	2	6	4	5	32	7	20	56	418	SOUTHERN METHOD UNIVERSITY TEX
38	32		3	7	3	24	3	7	5		2	3	4	17	3	12	21	165	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
STMN MISSIONARY COLLEGE TENN	1920-66 1960-66	3					3	2					2			2				
SOUTHERN MISS, UNIVERSITY OF	1920-66 1960-66	24 17	8 3	1 1		1 1	13 11	3 3	7 7	2 2			5 3		1	1				3
SOUTHERN OREGON COLLEGE	1920-66 1960-66	2 2	1 1				1 1	1 1												
SOUTHERN STATE COLLEGE ARK	1920-66 1960-66	3					3	1	2											
SOUTHERN STATE COLL S D	1920-66 1960-66												1 1			1 1				
SOUTHERN UNIV & AG & MECH C LA	1920-66 1960-66	2					2	1	1				16 8	5		3 3	2 2			6 3
SOUTHERN UTAH, COLLEGE OF	1920-66 1960-66	1								1			4 1	2 1			1			1
SOUTHWEST MO STATE COLLEGE	1920-66 1960-66	27 10	8 4	4 3		1 1	14 3	3 1	1 1	1 1			23 12			8 4	8 3			7 5
SOUTHWEST TEXAS STATE COLLEGE	1920-66 1960-66	26 8	5 1	1			20 7	9 4	2				24 10	5 4		8 3	5 1	1 1		5 1
SW ASSEMBLIES OF GDD COL TEX	1920-66 1960-66																			
SOUTHWESTERN AT MEMPHIS	1920-66 1960-66	38 18	6 2	13 4	1 1	1 1	17 10	8 8		1 1	1 1		10 4			4 2	4 1			2 1
SOUTHWESTERN COLLEGE KAN	1920-66 1960-66	37 3	5 1	8 1			22 1	3 3	2		2	2	31 6	1 1	1	6 1	7 2	1		15 2
SOUTHWESTERN LA UNIVERSITY OF	1920-66 1960-66	46 28	5 2	12 6		1 1	15 9	2 2	1 1	3 2	11 9	5 4	3 3	56 19	29 9	4 1	3 1	11 5		9 3
SOUTHWESTERN STATE COL OKLA	1920-66 1960-66	8 2	2 2				6 2	1 1	1				7 1		1		3 1			3
SOUTHWESTERN UNIVERSITY TEX	1920-66 1960-66	30 10	5 4	6 4	1 1		17 4	3 1	2 2	2 2			9 2			1 2	3 2			5
SPELMAN COLLEGE GA	1920-66 1960-66												3		1					2
SPRING HILL COLLEGE ALA	1920-66 1960-66	52 37	10 9	10 8		2 2	32 20	10 8	7 6				19 13			2 1	14 11	1 1		2 1
SPRINGFIELD COLLEGE MASS	1920-66 1960-66	1 1					1 1						14 4		2	7 3	3 1			2
STANFORD UNIVERSITY CAL	1920-66 1960-66	612 243	68 24	110 49	11 10	18 17	154 20	22 9	14 8	87 40	193 110	16 10	42 21	206 47	2 3	20 3	55 19	52 14	3 2	74 9
STANISLAUS STATE COLL CAL	1920-66 1960-66																			
STEPHEN F AUSTIN S C TEX	1920-66 1960-66	15 7	3 2				12 5	2 2	3 3				11 7	2 1	1 1	3 2	3 2			2 1
STERLING COLLEGE KAN	1920-66 1960-66	23 5		2			21 5	4 4	1 1				6 2			3 2	2			1
STETSON UNIVERSITY FLA	1920-66 1960-66	25 6	8 1	2			14 4	6 4		1 1			10 2			5	2 1			3 1
STEBENVILLE, COLL OF, OHIO	1920-66 1960-66	2 1	1 1				1						1			1				
STEVENS INST OF TECHNOLOGY N J	1920-66 1960-66	102 62	10 6	36 22	7 6	2 2	12 7	3 2	4 4		44 27	5 4	4 2							
STILLMAN COLLEGE ALA	1920-66 1960-66																			
STONEHILL COLLEGE MASS	1920-66 1960-66												4 3			3 3				1
STONY BROOK, SUNY AT	1920-66 1960-66	1 1					1 1	1 1												
STOUT STATE UNIV WISC	1920-66 1960-66												3	1	1		1			
SUFFOLK UNIV MASS	1920-66 1960-66	6 5	1 1	1			2 2		2 2		2 2		2 2							2 2

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY		EDUCATION	TOTAL ALL FIELDS
2	2				2	1		1					2	2				11	STHN MISSIONARY COLLEGE TENN
14	6	1	3	2	16	2	9	1			3	1	4	2	1	50	113	SOUTHERN MISS, 66 UNIVERSITY OF	
7	5			1	11		7				3		3			25	66		
1																13	16	SOUTHERN OREGON 13 COLLEGE	
3	1			1	1								1	1		3	10	SOUTHERN STATE 9 COLLEGE ARK	
3																7	8	SOUTHERN 4 STATE COLL S O	
																3	4		
9	1	1	1	2	4	2		1				1	2	2		15	46	SOUTHERN UNIV & 18 AG & MECH C LA	
1				1												6	18		
																4	9	SOUTHERN UTAH, COLLEGE OF	
29	3		5	8	8	40	18	4	3		10	5	8	6	168	295	SOUTHWEST MO 99 STATE COLLEGE		
5	1		1	1	20	7	2	2			8	1	2	2	50	99			
12	3			3	6	16	5	7			4		4	2	58	140	SOUTHWEST TEXAS 48 STATE COLLEGE		
6	1			1	4	7	1	3			3		2		15	48			
					1			1							2	3	SW ASSEMBLIES OF GOD COL TEX		
																2			
25	12		2	3	8	27	7	10	2	1	2	1	4	12	1	10	4	120	SOUTHWESTERN 58 AT MEMPHIS
11	6			5	15	6		2			1			6		4	4	58	
15	3		2	7	3	21	8	6		1	1	4		4		3	38	146	SOUTHWESTERN 32 COLLEGE KAN
1	1				4	2											18	32	
8	2			5		19	7	3	5		1	3		4	3		32	165	SOUTHWESTERN LA 78 UNIVERSITY OF
5	2		2		8	2	2	2	1		1	2		1	1		17	78	
3	2		1		2		2										47	68	SOUTHWESTERN 34 STATE COL OKLA
1					2												28	34	
12	4		1	2	3	30	8	6	9	1	2	2	1	11	3	7	24	116	SOUTHWESTERN 23 UNIVERSITY TEX
1	1				3	1	1	1				1		4		4	3	23	
1	1				5	2	2	2									7	16	SPELMAN 3 COLLEGE GA
7	2		2	3	15	1	6	1		7				1			4	98	SPRING HILL 66 COLLEGE ALA
5	2		1	2	9	1	4	1		3							2	66	
32	25	1	2	2	6	3	2			1			4	1	3	149	206	SPRINGFIELD 63 COLLEGE MASS	
7	6		1		1								2			48	63		
355	164	21	21	71	67	336	132	74	52	10	33	22	11	36	19	8	195	1740	STANFORD 562 UNIVERSITY CAL
110	54	10	7	17	16	104	40	22	15	2	9	11	5	14	9	3	44	562	
																	1	1	STANISLAUS STATE COLL CAL
																	1	1	
7	2			4	1	7	2	3			1	1		4	3	1	30	74	STEPHEN F 39 AUSTIN S C TEX
2	1			1	4	2	2				1	1		1	1		18	39	
3	2		1		7	3	3				1			2		2	8	49	STERLING 12 COLLEGE KAN
					3	1	1										2	12	
20	6	1	2	3	7	25	7	7	2	1	3	1	4	8	3	5	22	110	STETSON 54 UNIVERSITY FLA
15	5		2	2	14	4	6				3		1	6	2	4	11	54	
1					1												2	1	6 STEUBENVILLE, 2 COLL OF, OHIO
																	1	2	
7	4		1	2										1	1		3	113	STEVENS INST OF 67 TECHNOLOGY N J
4	3			1													1	67	
1			1														1	2	STILLMAN COLLEGE ALA
1																	1	2	
						7	1	4			2						1	12	STONEHILL 10 COLLEGE MASS
						6		3									1	10	
																		1	1 STONY BROOK, 1 SUNY AT
2	1			1										2			71	78	STOUT STATE 29 UNIV WISC
1	1													2			26	29	
4	3				1	5	1	2	2					2	1		5	24	SUFFOLK 17 UNIV MASS
2	2				3			1	1					1			4	17	

Appendix B
continued

continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY
SUL ROSS STATE COLLEGE TEX	1920-66 1960-66	7 3		1 1			3 3			3 2			9 5	1 1		1 1			7 3	
SULPICIAN SEM OF NW WASH	1920-66 1960-66	1 1	1 1																	
SUSQUEHANNA UNIVERSITY PA	1920-66 1960-66	10 3		6 1	1 1		1 1			3 1		1 1	11 7			2 2	4 4		5 1	
SWARTHMORE COLLEGE PA	1920-66 1960-66	246 89	55 28	83 26	7 7	8 6	75 18	16 7	14 10	2 1	31 16	2 2	9 4	114 52	3 1	7 1	42 19	25 17	37 14	
SWEET BRIAR COLLEGE VA	1920-66 1960-66	2 2					2 2	1 1					4 2		1 1		2 1		1 1	
SYRACUSE UNIVERSITY	1920-66 1960-66	306 94	15 5	46 13	2 2	9 6	139 29	28 13	18 8	31 11	75 36	23 6	13 8	209 50	29 15	15 11	43 23	55 23	67 11	
TABOR COLLEGE KAN	1920-66 1960-66	2 1	1 1				1 1						11 8	1 1	1 1	2 1	5 4		2 2	
TALLADEGA COLLEGE ALA	1920-66 1960-66	10 3	3 1				6 2		2 1		1 1		8 2	1 1	4 4		2 2		1 1	
TAMPA UNIVERSITY OF	1920-66 1960-66	6 3	2 1	1 1			3 1	1 1					4 4		1 1	2 2	1 1			
TARKIO COLLEGE MO	1920-66 1960-66	21 2		1 1	1 1		19 1	5 1	4 1	1 1			6 1	1 1		1 1	1 1		3 3	
TAYLOR UNIVERSITY IND	1920-66 1960-66	3 3					3 3						9 3		1 1	5 1	2 1		1 1	
TEMPLE UNIVERSITY PA	1920-66 1960-66	182 58	17 8	40 9		8 5	120 39	33 20	15 9	3 3	2 2		105 35		38 13	20 10	22 5		25 7	
TENN AGRIC AND IND STATE UNIV	1920-66 1960-66	2 2					2 2						7 2	4 4			3 3			
TENN TECHNOL UNIVERSITY	1920-66 1960-66	15 6	2 2	2 2			5 1	1 1	2 1		6 5	1 1	1 1	31 16	14 8	2 2	4 2	8 5	3 1	
TENNESSEE TEMPLE COLLEGE	1920-66 1960-66																			
TENNESSEE, UNIVERSITY OF	1920-66 1960-66	159 75	12 7	20 8		2 2	47 12	1 1	12 7	5 2	75 46	19 7	11 8	144 53	55 30	16 6	13 5	28 6	31 5	
TENN WESLEYAN COLLEGE	1920-66 1960-66	1 1					1 1	1 1												
TEXAS A & M UNIVERSITY	1920-66 1960-66	259 140	17 10	32 20	3 3	3 3	51 12	4 1	6 2	17 12	142 86	39 25	26 10	246 110	99 42	27 13	45 27	48 17	4 4	23 7
TEXAS CHRISTIAN UNIVERSITY	1920-66 1960-66	60 27	9 4	16 7	1 1	2 2	22 10	10 8		12 5	1 1		20 6		1 1	6 3	5 2	1 1	7 1	
TEXAS COLLEGE	1920-66 1960-66	1 1					1 1	1 1					2 2				1 1		1 1	
TEXAS COLL OF ARTS & IND	1920-66 1960-66	32 13	3 1	12 6		1 1	12 3	1 1	2 1		5 3	4 3		12 8	5 3		2 1	4 4		1 1
TEXAS LUTHERAN COLLEGE	1920-66 1960-66	5 3	1 1	1 1			3 2		2 1				3 3			1 1	2 2			
TEXAS SOUTHERN UNIVERSITY	1920-66 1960-66	4 3					4 3		2 2				7 5		2 1	2 2			3 2	
TEXAS TECHNOL COLLEGE	1920-66 1960-66	134 71	6 3	13 9		5 5	35 11	4 3	3 3	17 11	63 37	11 4	18 11	97 61	40 25	3 3	7 3	27 19	1 1	19 14
TEXAS, UNIVERSITY OF	1920-66 1960-66	781 337	87 40	179 79	9 9	26 22	221 59	37 21	35 16	67 28	227 131	56 27	51 29	222 71	6 3	15 5	51 23	66 21	84 19	
TEXAS WESLEYAN COLLEGE	1920-66 1960-66	1 1							1 1											
TEXAS WOMANS UNIVERSITY	1920-66 1960-66	5 5					4 4		1 1		1 1		15 6		3 3	6 3	2 1		4 2	
THEOL SEM REF EPIS CHURCH PA	1920-66 1960-66												1 1				1 1			
THIEL COLLEGE PA	1920-66 1960-66	11 1	1 1	1 1			8 1	2 1			1 1	1 1	11 4	1 1		1 1	3 2		6 1	
TIFT COLLEGE GA	1920-66 1960-66	1 1					1 1													

Doctorates by Field																		Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION			TOTAL ALL FIELDS
1	1					4	1	2			1						14	35	SUL ROSS STATE COLLEGE TEX	
						1			1								6	14	SULPICIAN SEM OF NW WASH	
5	4			1	7	4	2					1	8	1	7	33	74	SUSQUEHANNA UNIVERSITY PA		
1	1				1	1		17	28	8	17					6	18			
222	99	4	17	57	36	157	54	45	28	3	6	2	13	5	2	29	781	311	SWARTHMORE COLLEGE PA	
95	46	1	7	21	16	62	21	17	12				5	4	1	8				
7	2	2	2			8	2	2		2	1	1					2	23	SWEET BRIAR COLLEGE VA	
4	1	2				1		1									9			
263	105	12	14	43	62	165	55	49	19	3	11	15	6	36	12	18	222	1201	385	SYRACUSE UNIVERSITY
91	28	7	4	18	24	61	15	25	6	1	5	16	6	15	5	5	74			
9	7		2			10	2	3	3			1	1	4		4	9	45	29	TABOR COLLEGE KAN
4	4					5	1	3						3		3	8			
9	3		4		2	15	3	5	2		3	2		1		1	21	64	17	TALLADEGA COLLEGE ALA
5	1		3		1	2		1				1					5			
4	2			2		4	2	1	1								12	30		TAMPA, UNIVERSITY OF
1				1		1	1										9	18		
5	3			2		6	1	2		1	1	1		4	3	1	18	60	16	TARKIO COLLEGE MO
1	1					1		1						2	1	1	10			
4	2				1	10	3	2	1		1	2	1	9		9	25	60	18	TAYLOR UNIVERSITY INO
2	1				1									2		2	11			
179	106	7	20	28	12	103	30	23	26	1	6	7	9	28	10	14	221	818	301	TEMPLE UNIVERSITY PA
67	39	3	9	6	6	44	14	9	11	1	2	4	3	9	3	4	88			
6	3			1		6	1	3				2		2	1		19	42		TENN AGRIC AND INO STATE UNIV
5	3					3		2				1		1			9	22		
2				2		7	3	1	1			1	1	1	1		18	74		TENN TECHNOL UNIVERSITY
1				1		4	2	1						1			10	38		
2	2					1					1						5	1		TENNESSEE TEMPLE COLLEGE
2	2					1					1						5	8		
82	25		8	39	5	58	19	22	5	2	6	1	3	14	2	5	112	569	243	TENNESSEE, UNIVERSITY OF
41	13		3	22	2	18	7	3	2		3	1	2	9	1	3	47			TENN WESLEYAN COLLEGE
																		1		
53	6	1	3	40	3	12	4	4	1		1	2		9	8	1	55	634		TEXAS A & M UNIVERSITY
21	1	1	1	17	1	4	2	2						7	7		31	313		
41	20		6	8	6	44	9	15	10		2	4	4	23	5	17	40	228		TEXAS CHRISTIAN UNIVRSITY
19	14			1	3	15	1	2	5		1	3	3	9	2	7	19	95		
														1		1	7	11		TEXAS COLLEGE
																	4	5		
9	1		1	6	1	13	8	3	2					6	6		13	85		TEXAS COLL OF ARTS & INO
3				2	1	2	2							3	3		7	36		
						4	2					2		2	1	1	1	15		TEXAS LUTHERAN COLLEGE
														2	1			13		
1	1													2	2			14		TEXAS SOUTHERN UNIVERSITY
														2	2			11		
34	10	4	1	10	9	38	9	21	4		1	2	1	15	9	1	58	376		TEXAS TECHNOL COLLEGE
21	9	2		6	4	16	4	10	1					7	4		35	211		
356	123	17	29	116	65	388	114	125	91	7	16	22	10	117	73	14	177	2041		TEXAS, UNIVERSITY OF
117	52	9	6	30	16	129	26	43	32	5	7	10	6	52	37		60	766		
6	3		2		1	4	1	3						3		2	13	27		TEXAS WESLEYAN COLLEGE
4	2				2	1		1						2			4	13		
7	1		5		1	9		4	1			3	1	11			35	82		TEXAS WOMANS UNIVERSITY
5	1		4			2		1				1		8			19	40		
						1	1													
						1	1													
2				2		7	2		2	3				1		1	23	55		THEOL SEM REF EPIS CHURCH PA
						3	1										11	20		THIEL COLLEGE PA
1	1					3	1	1			1						4	9		TIFT COLLEGE GA
																		3		

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																					
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL		
TOCCOA FALLS INST, INC GA	1920-66 1960-66																						
TOLEDO UNIVERSITY OF	1920-66 1960-66	57 20	1 6	12 2	2 2	35 10	4 3	4 4		9 4	4 2	2 2	36 10	1 4	10 4	8 1	11 3	2 2			4		
TOUGALOO COLLEGE MISS	1920-66 1960-66	2 2	2 2										4 4			2 2	2 2						
TOWSON STATE COLLEGE MD	1920-66 1960-66												1 1			1 1							
TRANSYLVANIA COLLEGE KY	1920-66 1960-66	11 2	3 1	2 1		1 1	6 1	1 1					9 1	1 1			7 1				1		
TRENTON STATE COLLEGE N J	1920-66 1960-66	2 1	2 1																				
TREVECCA NAZA- RENE COLL TENN	1920-66 1960-66												1 1								1 1		
TRI-STATE COLLEGE IND	1920-66 1960-66	12 12								12 12	2 2	1 1											
TRINITY COLLEGE VT	1920-66 1960-66												1 1		1 1								
TRINITY COLLEGE CONN	1920-66 1960-66	82 27	6 2	19 5	1 1	2 2	45 14	8 4	14 9	5 2	7 4		20 8		5 1	5 3	5 1	1 1			4 2		
TRINITY COLLEGE D C	1920-66 1960-66	7 5	1 1				6 4	2 2	2 2				9 2		1 1		3 1				5 1		
TRINITY UNIVERSITY TEX	1920-66 1960-66	17 7	4 3				12 3	2 2	2 1		1 1		15 5		1 1	5 3	6 2				3		
TROY STATE COLLEGE ALA	1920-66 1960-66	3 3	1 1				1 1				1 1	1 1	4 2		1 1		1 1	1 1			1		
TUFTS UNIV MASS	1920-66 1960-66	154 53	6 3	17 3	1 1	3 1	73 15	17 6	10 4	24 15	34 17	5 3	5 3	105 44	2 1	14 2	33 13	21 15	3 2		32 11		
TULANE UNIV OF LOUISIANA	1920-66 1960-66	146 58	29 13	23 11	1 1	3 3	53 12	11 8	6 2	8 5	33 17	13 8	8 3	54 19	1 2	9 2	19 9	10 4			15 4		
TULSA UNIVERSITY OF	1920-66 1960-66	53 30	3 2	4 3		1 1	15 6	3 1	3 2	19 9	12 10	6 4	15 6	1 1		3 1	1 1	2 1			8 3		
TUSCULUM COLLEGE TENN	1920-66 1960-66	10 2		3 1			7 1	2 1					7 3			1 1	1 1				5 1		
TUSKEGEE INSTITUTE ALA	1920-66 1960-66	7 4		1 1		1 1	5 3	3 2	1 1		1 1		22 10	10 2	4 3	2 2	3 1				3 2		
UNION COLLEGE NEBR	1920-66 1960-66	19 8	2 2	8 2		2 2	9 4	4 1	1 1				10 5		1 1	6 3	1 1				2 2		
UNION COLLEGE KY	1920-66 1960-66	5 3	1 1				4 3	1 1	1 1				2 1	1 1							1		
UNION COLLEGE & UNIVERSITY N Y	1920-66 1960-66	233 82	9 5	80 26	6 3	9 7	99 32	11 8	16 10	13 10	32 9		14 2	39 15	1 1	17 5	8 4	6 3	3 2		4 1		
UNION THEOL SEMINARY N Y	1920-66 1960-66																						
UNION UNIV TENN	1920-66 1960-66	19 6	4 3	1 1		1 1	13 2	3 2	2 1	1 1			8 2	1 1	1 1	2 1	1 1				3 1		
U S AIR FORCE ACADEMY COLO	1920-66 1960-66																						
U S COAST GUARD ACADEMY CONN	1920-66 1960-66	12 4	3 1	2 1						1 1	6 3		3 1										
U S MERCHANT MARINE AC N Y	1920-66 1960-66	16 11	1 1	4 2		1 1				1 1	10 7	1 1	4 2			1 1	2 1				1 1		
U S MILITARY ACADEMY N Y	1920-66 1960-66	133 80	7 4	33 18	2 2		4 1		1 1	4 2	85 55	18 12	1 1			1 1							
U S NAVAL ACADEMY MD	1920-66 1960-66	136 86	17 11	45 26	3 3	5 4	5 3		1 1	2 1	67 45	13 8	8 4		1 1	3 2	1 1	1 1			2 1		
UNITED THEOL SEMINARY OHIO	1920-66 1960-66																						
UPPER IOWA UNIVERSITY	1920-66 1960-66	4		1			3						7	2		1	1				3		

Doctorates by Field																		Institution of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
						1			1									1	TOWSON STATE COLLEGE MD
23	9	1	2	4	3	27	7	8	6		1	3	1	8	8		36	187	TOWSON STATE COLLEGE MD
3	2				1	2	1	1									2	13	TOWSON STATE COLLEGE MD
1	1					1	1										1	9	TOWSON STATE COLLEGE MD
3	2					1	1										23	28	TOWSON STATE COLLEGE MD
13	3		1	2	7	23	4	6	6	1	3	1	1	7		5	25	88	TRANSYLVANIA COLLEGE KY
4	1			1	2	8	3	2										20	COLLEGE KY
7	3	1	1	1	1	7	4					1	1				66	82	TRENTON STATE COLLEGE N J
1						5	3					1					24	31	COLLEGE N J
						2	2										2	5	TREVECCA NAZARENE COLL TENN
																		12	TRI-STATE COLLEGE IND
1	1					1		1										3	TRINITY COLLEGE VT
27	21		1	4	1	61	18	15	16	6	3		1	6	2	3	17	213	TRINITY COLLEGE CONN
18	16			2		16	5	5		3	2						3	74	COLLEGE CONN
15	7	2	2	2	2	43	10	15	9	6	2	1		1			9	84	TRINITY COLLEGE D C
3	2				1	13	4	5	2		1	1					2	25	COLLEGE D C
26	17		3	1	4	19	6	5	2		4	1	1	4		4	19	100	TRINITY UNIVERSITY TEX
14	11				2	2	1				1						8	39	UNIVERSITY TEX
1			1			7	1	5				1					39	54	TROY STATE COLLEGE ALA
1			1			4		4									26	36	COLLEGE ALA
77	37	2	1	15	21	64	21	23	7	2	4	3	2	11	6	5	55	466	TUFTS UNIV MASS
39	18			11	8	34	14	13	4	1	4	3	1	4	4		24	198	MASS
71	44	3	6	10	5	79	14	26	18	2	8	5	2	16	8	2	15	381	TULANE UNIV OF LOUISIANA
30	16	3	3	4	3	37	4	12	9	1	5	4	1	4	2		8	156	OF LOUISIANA
17	12		2	2	1	21	5	4	6	2		1	5	3	9	3	22	137	TULSA UNIVERSITY OF
8	6	1	1		3	3	1	1	1		1	1	2	5	2	2	13	67	UNIVERSITY OF
6	3				2												11	37	TUSCULUM COLLEGE TENN
3	1		1	1	1	1	1	2				1		2			32	70	TUSKEGEE INSTITUTE ALA
4	2			1	1	31	19	7	4		1		5	2	1	3	28	97	UNION COLLEGE NEAR
						9	2	4	2		1		2	1			14	38	COLLEGE NEAR
4			1		3	5	1	3			1		1			1	12	29	UNION COLLEGE KY
2				2	2	2		1			1						1	8	COLLEGE KY
68	35	2	8	12	10	51	13	20	7	4	6		1	16	5	4	37	444	UNION COLLEGE & UNIVERSITY N Y
18	9		3	2	3	14	3	5	4		2			5	2	1	4	138	UNIVERSITY N Y
														1		1	2	3	UNION THEOL SEMINARY N Y
														1		1		1	SEMINARY N Y
6	5		1			9	3	4		1			1	3	1	2	14	59	UNION UNIV TENN
2	1					5	3	1					1	1		1	5	21	UNIV TENN
1					1													1	U S AIR FORCE ACADEMY COLO
1																		1	ACADEMY COLO
1	1													3	3		1	17	U S COAST GUARD ACADEMY CONN
														3	3			8	ACADEMY CONN
6	2		1	1	1	4		2	1			1		5	2	1	2	37	U S MERCHANT MARINE AC N Y
3	2				2	2		2						4				24	MARINE AC N Y
61	8	3	2	5	41	22	16	4	2					11	7		14	242	U S MILITARY ACADEMY N Y
36	1				27	13	7	4						5	4		6	141	MILITARY ACADEMY N Y
27	8			6	10	20	12	5	1		2			16	10	1	26	233	U S NAVAL ACADEMY MD
17	5			4	5	11	6	4			1			12	9		16	146	NAVAL ACADEMY MD
														1		1		1	UNITED THEOL SEMINARY OHIO
														1		1		1	SEMINARY OHIO
3			1			2				1			1	3		1	14	33	UPPER IOWA UNIVERSITY
1				1													2	3	UNIVERSITY

Appendix B
continued

Continued		Doctorates by Field																			
Institution of Baccalaureate	Year of Doctorate																				
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS,	PHYSIOL, BIostatist,	ANAT, CYTOL, ENTOMOL,	GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY
UPSALA COLLEGE N J	1920-66 1960-66	22 9	2 1	2			12 5	5 3	3 2	3 3			14 3	1	4	5	1				2 1
UPSTATE MEDICAL CENTER N Y	1920-66 1960-66												1 1				1 1				
URSINUS COLLEGE PA	1920-66 1960-66	47 13	3 1	7 1	2 1	37 11	16 9	1					23 7		2 1	12 6	4				5
URSULINE COLLEGE OHIO	1920-66 1960-66	1				1							1			1					
URSULINE COLLEGE KY	1920-66 1960-66																				
UTAH STATE UNIV OF AG & AP SCI	1920-66 1960-66	125 38	4 2	32 6	2 2	1 1	51 11	8 3	7 4	7 3	31 16		5 2	391 145	197 76	23 9	52 23	73 23	6 4	40 10	
UTAH, UNIVERSITY OF	1920-66 1960-66	487 209	30 16	78 32	8 7	16 15	159 37	27 12	30 17	51 24	169 100	31 23	43 24	202 76	11 5	24 12	35 13	70 26	4 2	58 18	
VALDOOSTA STATE COLLEGE GA	1920-66 1960-66	1					1							3 2			1		1		1
VALLEY CITY STATE COLL N D	1920-66 1960-66	2					2	1						1 1	1 1						
VALPARAISO UNIVERSITY IND	1920-66 1960-66	53 25	5 4	12 2			23 3	4 3	4 1	1 1	12 10		5 3	24 8		2	9 4	7 3		6 1	
VANDERCOOK COLL OF MUSIC ILL	1920-66 1960-66																				
VANDERBILT UNIV TENN	1920-66 1960-66	158 73	12 3	20 11	2 2	3 2	64 22	20 13	10 5	11 4	45 33	22 16	8 5	37 14	2	6 3	10 5	12 4		7 2	
VASSAR COLLEGE N Y	1920-66 1960-66	64 6	13 2	14		1	33 4	7 1	2 2	4				69 11		9 1	25 4	17 3		18 3	
VENNARD COLLEGE IOWA	1920-66 1960-66																				
VERMONT, U OF & ST AG COLL	1920-66 1960-66	85 34	5 2	11 4		2 1	50 16	15 10	7 4	4 2	15 10	1	2 2	80 34	29 14	8 2	16 7	8 4		19 7	
VILLA MADONNA COLLEGE KY	1920-66 1960-66	18 13	1 1	10 5	1 1	7 7	7 4	2 2	3 1					3 2				1 1		2 1	
VILLA MARIA COLLEGE PA	1920-66 1960-66	1	1											3		1	1	1			
VILLANOVA UNIVERSITY PA	1920-66 1960-66	84 45		10 6		2	41 18	6 4	11 10		33 21	15 12	5 2	20 7		5 1		8 5		7 1	
VIRGINIA MILITARY INST	1920-66 1960-66	78 37	2 1	15 9		2	42 15	12 9	4 2		19 12		3 3	5 2	1	2	1	1			
VIRGINIA POLY-TECHNIC INST	1920-66 1960-66	226 103	20 15	22 14	2 2	4	52 11	11 5	6 4	14 4	118 59	42 13	10 6	126 42	59 20	6 1	27 12	14 4	1	19 5	
VIRGINIA SEM & COLLEGE	1920-66 1960-66																				
VIRGINIA STATE COLLEGE	1920-66 1960-66	9 5		6 3		1 1	3 2	1 1						14 8	3		2 2	5 3		4 3	
VIRGINIA UNION UNIVERSITY	1920-66 1960-66	6 1	1 1				5	3						5 1						5 1	
VIRGINIA UNIVERSITY OF	1920-66 1960-66	227 55	20 4	55 14		5 5	102 15	13 7	14 4	27 9	23 13	5	1 1	78 19	3 3	9 2	14 2	13 5		35 7	
VITERBO COLLEGE WISC	1920-66 1960-66	1					1	1													
WABASH COLLEGE IND	1920-66 1960-66	98 32	8 5	19 11	2 2	3 3	71 16	13 6	4 3					74 24	12 2	4	14 6	11 6	1 1	32 9	
WAGNER COLLEGE N Y	1920-66 1960-66	20 10	2 1	2			16 9	7 3	2 2					23 11		1	9 3	8 5	1	4 2	
WAKE FOREST COLLEGE N C	1920-66 1960-66	65 27	16 7	20 8	1 1	1	27 10	10 8	1 1	1 1	1			27 12	3 2	2 1	4 3	9 4		9 2	
WALLA WALLA COLLEGE WASH	1920-66 1960-66	15 8	3	2	1		10 6		3 3					22 10	3 1		5 4	5 2		9 3	
WARNER PACIFIC COLLEGE OREG	1920-66 1960-66																				

Doctorates by Field																	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTC	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY			EDUCATION
20 9	11 4		3 2	4 2	2 1	10 1	3		4		3 1		6 3	4 3	2	15 6	87 31	UPSALA COLLEGE N J	
																	1 1	UPSTATE MEDICAL CENTER N Y	
21 2	9 1			2 1	9 1	28 8	12 4	7 1	5 2		4 1		11 3		10 2	38 10	168 43	URSINUS COLLEGE PA	
1				1		3 1		2			1 1					2	8	URSULINE COLLEGE OHIO	
1	1					4 1		2 1	1 1				1 1			1	7	URSULINE COLLEGE KY	
140 40	28 5		23 6	62 20	23 8	39 16	9 5	14 7	1		13 2		21 9	7 4	4 1	137 69	853 317	UTAH STATE UNIV OF AG & AP SCI	
234 102	107 55	13 5	19 4	37 15	45 17	138 56	25 10	30 10	30 9	2 2	7 4	32 18	10 3	50 26	36 21	6 3	198 96	1309 565	UTAH, UNIVERSITY OF
1	1					1	1						1			3 1	10	VALDOSTA STATE COLLEGE GA	
10 2	2		1		1 1	6 1	4		1 1			1	1 1	1 1		36 12	56 17	VALLEY CITY STATE COLL N D	
22 10	14 5		1		2 1	24 10	10 2	8 4	1 1	2 2	1		2 2	8 2	4 2	32 9	163 64	VALPARAISO UNIVERSITY IND	
						1						1						1	VANDERCOOK COLL OF MUSIC ILL
68 25	36 19	1	5	15 3	11 3	131 33	33 10	68 14	13 5	3 2	8 4	1 1	14 4	2 3	8 3	33 13	441 162	VANDERBILT UNIV TENN	
111 24	54 12	15 2	15 3	21 6	4 1	143 32	36 4	41 10	24 7	12 4	11 4		18 7	8 1	1 1	25 5	420 79	VASSAR COLLEGE N Y	
						1 1										1	2	VENNARD COLLEGE IOWA	
45 16	16 8		2 1	19 3	7 4	47 18	15 4	5 2	11 6	6 1	3 1	5 3	1 1	9 3	3 2	50 14	316 119	VERMONT U OF & ST AG COLL	
						5 2	2 1	2 1	1				1			2	29	VILLA MADONNA COLLEGE KY	
2 1	2 1					1 1				1 1			1 1	1 1		3 2	11	VILLA MARIA COLLEGE PA	
11 6	3 3		2	5 2	1 1	40 17	13 5	7 5	5 1	4 1	10 4	1 1	3 1		2 1	17 12	175 88	VILLANOVA UNIVERSITY PA	
2 1				1 1	1 1	13 3	8 1	5 2					1 1	1 1		2	101	VIRGINIA MILITARY INST	
34 11	2 1		7 2	20 6	4 2	5 1	1 1	4 1					5 3	3 2	1 1	24 13	420 173	VIRGINIA POLY- TECHNIC INST	
						1 1		1 1										1	VIRGINIA SEM & COLLEGE
5 3		1 1	1 1	1 1	1 1	6 3	4 2				1 1	1 1	2 1			46 12	82 32	VIRGINIA STATE COLLEGE	
12 1	2		8 1	1		6 1	3 1				1 1	2 1		4		4 3	50	VIRGINIA UNION UNIVERSITY	
109 26	33 7	3 3	9 1	40 8	19 5	159 38	38 12	52 10	30 9	5 2	26 4	5 1	2 1	17 5	5 3	5 1	49 21	639 164	VIRGINIA UNIVERSITY OF
						2 1	1					1 1				3 1	6	VITERBO COLLEGE WISC	
21 10	5 4	2 1		5 1	5 2	53 12	14 5	16 1	6 1		4 1	11 4	13 6	8 3	3 1	29 13	288 97	WABASH COLLEGE IND	
9 6	5 4		2		1 1	6 2	2	2 1	1		1 1		2 1		1	18 12	78 42	WAGNER COLLEGE N Y	
26 10	9 2		6 2	3 1	8 5	66 25	24 7	18 7	11 4	3 1	8 4	1 1	18 5	1 1	14 4	36 21	238 100	WAKE FOREST COLLEGE N C	
2	1			1		21 3	11	3 1	5 1			2 1	5 2	1 1	4 1	22 14	87 37	WALLA WALLA COLLEGE WASH	
																2	2	WARNER PACIFIC COLLEGE OREG	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WARTBURG COLLEGE IOWA	1920-66 1960-66	17 7	4 2				12 4	1 1	3 3	1 1			6 3		1 3				2 1	
WARTBURG THEOL SEMINARY IOWA	1920-66 1960-66																			
WASHBURN UNIV OF TOPEKA	1920-66 1960-66	22 2	8 1	2			10 1	2 1	1 1	1 1			15 1	1 2	3 3				9 9	
WASHINGTON & JEFFERSON C PA	1920-66 1960-66	72 15	23 7	15 2	2 2	29 5	2 2	3 1		5 1			21 11	1 1	8 6	5 2		7 2		
WASHINGTON & LEE UNIV VA	1920-66 1960-66	50 16	3 2	9 5	1 1	2 1	30 7	3 2	7 1	1 1			14 4	4 4	4 3	1 1		5 5		
WASHINGTON BIBLE COLL D C	1920-66 1960-66																			
WASHINGTON COLLEGE MD	1920-66 1960-66	19 2	2 1	1			16 1						8 3		4 2	3 1		1 1		
WASHINGTON STATE COLL ME	1920-66 1960-66																			
WASHINGTON STATE UNIV	1920-66 1960-66	191 69	17 7	38 13	1 1	6 6	73 22	16 7	8 4	21 8	42 19	5 1	4 2	242 79	105 35	28 10	34 12	40 13	35 9	
WASHINGTON UNIVERSITY MO	1920-66 1960-66	324 124	23 10	65 20	5 4	7 7	100 27	23 10	20 11	27 15	109 52	40 15	27 9	114 29	2 4	13 4	40 12	22 7	37 6	
WASHINGTON, UNIV OF, WASH	1920-66 1960-66	653 221	52 16	107 43	13 12	6 5	230 48	30 16	27 13	76 27	188 87	52 16	30 18	320 75	54 21	61 7	66 21	73 13	3 3	63 10
WAYLAND BAPTIST COLLEGE TEX	1920-66 1960-66	1					1													
WAYNE STATE COLLEGE NEBR	1920-66 1960-66	13 2	1 1	2			9 2	2 1	1 1		1 1		4 3			1 1	1 1		2 2	
WAYNE STATE UNIV MICH	1920-66 1960-66	238 97	25 13	38 22	6 5	9 9	111 26	31 9	10 3	10 5	54 31	16 9	3 3	91 29	4 3	12 1	32 8	17 7	26 10	
WAYNESBURG COLLEGE PA	1920-66 1960-66	15 8	1				9 4	4 4	4 3	1 1			24 12	8 5		3 1	6 6		7 7	
WEBB INST OF NAVAL ARCH N Y	1920-66 1960-66	19 5	4	5							10 5									
WEBSTER COLLEGE MO	1920-66 1960-66	3 2	1 1				2 1						1 1			1 1				
WELLESLEY COLLEGE MASS	1920-66 1960-66	49 10	17 4	13 3		1 1	16 3	3 3	1 1	3 3			94 21	2 1	9 1	28 10	21 8	1 1	33 2	
WELLS COLLEGE N Y	1920-66 1960-66	3	2				1 1	1					2 1				2 1			
WESLEYAN COLLEGE GA	1920-66 1960-66	1					1						2 1			1 1			1 1	
WESLEYAN UNIV CONN	1920-66 1960-66	155 44	14 8	46 16	4 4	3 2	79 17	12 6	12 8	14 3	2 2		77 22	1 1	8 1	26 10	18 7		24 4	
WEST CHESTER STATE COLL PA	1920-66 1960-66	8 3	2 1	2			2 1	1 1		1 1		1 1	7 2	1 1		3 2	2 2		1 1	
WEST GEORGIA COLLEGE	1920-66 1960-66																			
WEST LIBERTY ST COLL W VA	1920-66 1960-66	4 2	1 1	1		1 1	2 1	2 1					6 4	1 1		5 3				
WEST TEXAS STATE UNIV	1920-66 1960-66	27 14	8 4	4			13 9	2 2	6 6	2 1			10 7	4 2	2 1	2 2	1 1		1 1	
WEST VIRGINIA INST OF TECH	1920-66 1960-66	5 3	1 1				3 1	1 1			1 1	1 1	3 3			2 2			1 1	
WEST VIRGINIA STATE COLLEGE	1920-66 1960-66	6 3					6 3	3 3					5 5			2 2	1 1		2 2	
WEST VIRGINIA UNIVERSITY	1920-66 1960-66	207 56	11 2	23 7	1 1	3 2	98 22	18 8	11 9	12 2	63 23	27 10	9 2	209 77	91 32	19 13	35 19	24 7	40 6	
WEST VIRGINIA WESLEYAN COLL	1920-66 1960-66	39 15	2 1	1		1 1	34 14	13 11	4 2		2 2	2 2	15 2	2 2	2 2	5 1	1 1		5 1	
WESTERN CAROLINA COLL N C	1920-66 1960-66	4 4	1 1				3 3	1 1	1 1				8 7	2 2	1 1		1 1		4 3	

Doctorates by Field																TOTAL ALL FIELDS	Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION			RELIGION AND THEOLOGY	EDUCATION
2		2			18	2	2	5		2	2	1	2	1	3	11	63	27 WARTBURG COLLEGE IOWA	
																1	1	1 WARTBURG THEOL SEMINARY IOWA	
29	14	1	10	3	21	7	6	4			2	2	7	3	2	38	132	29 WASHBURN UNIV OF TOPEKA	
9	6		2		6	4	2									12			
14	6		5	1	34	2	13	5	5		1		4	1	3	26	171	42 WASHINGTON & JEFFERSON C PA	
3	2		1		10	2	7									3			
37	10	1	2	8	12	71	37	19	8	1	2	2	1	15	5	6	9	196	56 WASHINGTON & LEE UNIV VA
13	3			4	16	11	11	2	1		2	2		6	1	1			
8	8				6	2	4						1			1	1	1	WASHINGTON BIBLE COLL D C
2	2				3	1	2									11	53	12 WASHINGTON COLLEGE MD	
																2	2	2	WASHINGTON STATE COLL ME
87	26	4	19	25	11	44	9	10	11		1	9	4	12	8		93	669	WASHINGTON STATE UNIV
31	9	3	6	7	5	20	6	4	2		1	6	1	4	3		37	240	WASHINGTON STATE UNIV
175	90	5	21	29	16	130	22	37	29	8	10	11	11	32	18	6	77	852	297 WASHINGTON UNIVERSITY MO
54	27	2	7	13	1	40	4	9	9	1	4	6	7	16	13	2	34		
371	115	23	43	94	66	321	63	108	56	11	24	40	19	67	44	2	231	1963	WASHINGTON UNIV OF WASH
109	37	7	15	24	21	110	18	38	18	5	5	13	13	34	30	1	53	602	WASHINGTON UNIV OF WASH
																		7	WAYLAND BAPTIST COLLEGE TEX
3	2			1		3	1	2										5	WAYLAND BAPTIST COLLEGE TEX
7	2			2	1	9	6		1		1	1	2		2	66	101	39	WAYNE STATE COLLEGE NEBR
						1										33			
187	96	2	36	22	14	175	40	38	32	2	12	34	13	20	8	5	243	954	WAYNE STATE UNIV MICH
88	48	1	16	8	7	85	18	16	16		6	23	5	9	5	2	136	444	WAYNE STATE UNIV MICH
5			3	1	1	2	4	2				1					17	69	WAYNESBURG COLLEGE PA
							1					1					4	26	WAYNESBURG COLLEGE PA
1	1												1					21	WEBB INST OF NAVAL ARCH N Y
																		6	WEBB INST OF NAVAL ARCH N Y
4	2		1		11	2	5			2		2				2	21	12	WEBSTER COLLEGE MD
3	2				6	1	1									1			
100	48	4	9	17	13	170	40	50	35	15	9	1	19	10	7	43	466	128	WELLESLEY COLLEGE MASS
35	16	3	1	3	8	46	6	17	12	2	2		6	4	3	12			
5	1	1	1		2	19	4	7	5	1	2					6	35	7	WELLS COLLEGE N Y
4	1	1			2	1		1								1			
3	3					11		8	3					1	1	6	24	7	WESLEYAN COLLEGE GA
1	1				3			2	1							2			
105	50	5	4	24	19	180	46	68	27	3	23	5	4	20	4	14	41	578	WESLEYAN UNIV CONN
36	18	2	2	6	6	53	12	24	2	1	7	4	3	4	2	2	15	172	WESLEYAN UNIV CONN
13			1	1	3	10	3	4									94	132	WEST CHESTER STATE COLL PA
5	2				4			2									46	60	WEST CHESTER STATE COLL PA
																	1	1	WEST GEORGIA COLLEGE
																	1		
3			1	1	1	6		2			1	2	1			6	25	15	WEST LIBERTY ST COLL W VA
3			1	1	1	4		2								2			
10	7			1	2	21	6	2	5	1		1	7	5	4	46	119	48	WEST TEXAS STATE UNIV
2	2				6		2		1			3	1	2	1	17			
2				2	1								1	1	1	6	18	8	WEST VIRGINIA INST OF TECH
5	1		2	1	1	5	1	1	1			1	1	3	2	17	41	12	WEST VIRGINIA STATE COLLEGE
2			1																
67	27	1	7	17	13	69	16	22	9	1	2	12	6	14	11	1	92	658	WEST VIRGINIA UNIVERSITY
19	9		1	5	3	23	4	7	5			4	2	3	3	23		201	WEST VIRGINIA UNIVERSITY
8	6				2	8		4			1	3		3	3	19	92	35	WEST VIRGINIA COLLEGE
5	4				1	4		3				1		3	3	6			
1					1	1			1							25	39	26	WEST VIRGINIA COLLEGE
																15			

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																		
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WESTERN COLL FOR WOMEN OHIO	1920-66 1960-66	7 1	2				5 1	1 1	2				6		1	1	2		2	
WESTERN ILL UNIVERSITY	1920-66 1960-66	21 10	1 1	1			18 9	6 5	2 2	1			12 5	2 1		6 3	1		3 1	
WESTERN KY STATE COLLEGE	1920-66 1960-66	45 11	5 1	11 1			27 9	3 2	4 4	1	1		36 14	14 6	3 1	6 1	8 4		5 2	
WESTERN MARY- LAND COLLEGE	1920-66 1960-66	21 9		9 5	3		10 3	4 3			2 1	1	25 10	1 1	2	7 3	4 4	1 1	10 2	
WESTERN MICH UNIVERSITY	1920-66 1960-66	34 14	5 2	7 1			20 9	3 3	4 3		2 2	1 1	25 13	1 1	1	7 4	2 2	1 1	13 6	
WESTERN MONTANA COLLEGE	1920-66 1960-66	1 1					1 1		1 1				1 1			1 1				
WESTERN NEW MEXICO UNIV	1920-66 1960-66	3 1	1 1				1 1			1			2 2				1		1	
WESTERN RESERVE UNIV OHIO	1920-66 1960-66	147 51	14 5	21 4	2		104 36	19 13	20 17	5 4	3 2		1 1	102 31	2 1	12 3	33 13	27 8		28 6
WESTERN STATE COLL OF COLO	1920-66 1960-66	14 5					14 5	2 2	4 2				8			4			4	
WESTERN WASH STATE COLLEGE	1920-66 1960-66	9 5	1 1				7 3		1 1				5 5			2 2			3 3	
WESTFIELD, ST COL AT, MASS	1920-66 1960-66																			
WESTMAR COLLEGE IOWA	1920-66 1960-66	8 1	2				6 1	2 1					6 4			2 1			4 3	
WESTMINSTER COLL N J	1920-66 1960-66																			
WESTMINSTER COLLEGE PA	1920-66 1960-66	32 10	6 3	4 1			21 6	5 2	4 3		1		1 1	15 3	1 1	1 1	6 1	2 1		5
WESTMINSTER COLLEGE MO	1920-66 1960-66	21 5	4	1			14 4	3 3	4 1	1	1 1		20 4	1 1	1 1	5 10	3		3	
WESTMINSTER COLLEGE UTAH	1920-66 1960-66												1			1				
WESTMONT COLLEGE CAL	1920-66 1960-66	3 2	1				2 2	1 1					1 1				1 1			
WHEATON COLLEGE MASS	1920-66 1960-66	4 3					4 3	2 2	1 1				7 2		2 1		2 1		3	
WHEATON COLLEGE ILLINOIS	1920-66 1960-66	80 31	6 4	10 7	2 2		48 14	8 7	5 3	16 6			45 18	4 3	1	14 8	7 3		19 4	
WHEELING COLLEGE W VA	1920-66 1960-66	4 4		2 2			2 2	1 1												
WHEELOCK COLLEGE MASS	1920-66 1960-66																			
WHITMAN COLLEGE WASH	1920-66 1960-66	57 10	6 2	24 3		1	24 5	4 1	2 1	1	2		1	20 6	2		8 2	6 3		4 1
WHITTIER COLLEGE CAL	1920-66 1960-66	29 5	3 2	3 1			22 5	4 1	4 1	1			22 8		1	6 1	5 1	1 1	9 5	
WHITWORTH COLLEGE WASH	1920-66 1960-66	8 1	2 1	1 1			5 1		1				8 4			3 1	3 2		2 1	
WICHITA STATE UNIVERSITY	1920-66 1960-66	75 34	3 2	10 6	2 2	4 3	45 17	5 5	5 3	7 1	10 8	1 1	3 3	19 5	3 1		2 2	3 3		5 1
WILBERFORCE UNIV OHIO	1920-66 1960-66	3	2				1	1					5 3	1		1 1	2 2		1	
WILEY COLLEGE TEX	1920-66 1960-66	5 1		1			4 1	2					2 1			1 1				
WILKES COLLEGE PA	1920-66 1960-66	11 5					11 5	3 1	4 3				7 6			2 2	3 3		2 1	
WILLAMETTE UNIV OREG	1920-66 1960-66	56 18	6 1	15 6	1 1	2	32 9	3 1	6 5		3		1 1	19 9	2 1	1	9 4	3 1		4 3
WILLIAM CAREY COLLEGE MISS	1920-66 1960-66												1 1			1 1				

Doctorates by Field																		Institution of Baccalaureate		
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS	
6	5	1			9	2	2	3	1		1							4	32	WESTERN COLL FOR WOMEN OHIO
11	4			2	3	11	3	3			4	1	1	1				66	122	WESTERN ILL UNIVERSITY
5	2			1	1	2		1										33	56	
23	4			11	6	27	13	7	2	2		3	3	1				54	188	WESTERN KY STATE COLLEGE
8	2			2	4	9	3	1	1			2	1					21	64	
15	9	1	3	2		18	7	6	1		1	3	10	2	7			38	127	WESTERN MARY- LAND COLLEGE
7	3			1		11	3	4	1				5		3			15	57	
48	26		6	3	7	71	11	15	6	1	2	33	3	5	4			129	312	WESTERN MICH UNIVERSITY
21	15			1	3	31	7	6	3		12	2	2	2				67	148	
						1					1							8	11	WESTERN MONTANA COLLEGE
						4		1	1		2							3	5	
1				1														16	26	WESTERN NEW MEXICO UNIV
1																		7	9	
163	106	4	12	14	16	136	36	38	27	8	3	14	9	25	9	7		55	628	WESTERN RESERVE UNIV OHIO
58	33	2	4	3	8	42	12	12	7	1	1	7	2	8	6			21	211	
4	1				3	6	2	1				1	2					24	56	WESTERN STATE COLL OF COLO
1					1	2	1					1						11	19	
14	11				1	6	2	1				3						60	94	WESTERN WASH STATE COLLEGE
6	6					1	1	1										37	54	
1																		7	8	WESTFIELD, ST COL AT, MASS
1																		4	5	
7	3		1	2	1	6	1	1	1	1	1		4					14	45	WESTMAR COLLEGE IOWA
4	2		1	1		3	1	1					1					6	19	
						2												2	4	WESTMINSTER CHOIR COLL N J
						1						2						2	3	
20	9		4		6	24	3	10	2		1	7	1	6	2	4		32	129	WESTMINSTER COLLEGE PA
5	1		2		2	7	1	3			3			3	1	2		8	36	
15	5		4	3	3	16	6	6	4					4	1	3		14	90	WESTMINSTER COLLEGE MO
3	2			1	5	5	2	2	1					2	1	1			23	
3	1				2													1	5	WESTMINSTER COLLEGE UTAH
2																		1	3	
3	1	2				10	2	5	1	2									17	WESTMONT COLLEGE CAL
1	1					10	2	5	1	2									14	
4	2		1			13	4	3	3	1	1		1			1		6	35	WHEATON COLLEGE MASS
						2	1	1					1					1	9	
26	8	5	5	3	4	91	24	19	17	14	8	4	2	51	1	48		61	354	WHEATON COLLEGE ILLINOIS
18	6	5	3	1	2	44	9	7	11	5	5	3	1	18		16		38	167	
						1	1												5	WHEELING COLLEGE W VA
																			5	
																		5	2	WHEELOCK COLLEGE MASS
																		2	2	
27	10		2	9	6	34	6	14	2	4	3	3	1	6	3	2		31	175	WHITMAN COLLEGE WASH
10	5		1	2	2	9	2	5			1	1		1	1			10	46	
25	11	1	4	1	8	17	6	4	3		1	2	4			3		48	145	WHITTIER COLLEGE CAL
12	4		2		4	6	1	1	3				2			1		25	58	
10	9			1		5	1		2		1	1	5			4		13	49	WHITWORTH COLLEGE WASH
6	6				4								3			2		9	27	
39	22			6	11	45	10	12	4		13	6	5	5				46	229	WICHITA STATE UNIVERSITY
19	12			2	5	28	5	6	3		8	6	2	2				23	111	
6	1		4	1		7	1	4			1	1	4		3			14	39	WILBERFORCE UNIV OHIO
3			2			1												3	10	
						10	3	3	2				2	2				7	26	WILEY COLLEGE TEX
						5			1									3	10	
5	4					2	1	1										6	31	WILKES COLLEGE PA
5	4					2	1	1										6	24	
44	19	1	11	4	9	31	12	6	3		4	3	2	13		12		49	212	WILLAMETTE UNIV OREG
19	8		6		5	8	5	2	1					4		4		15	73	
						1		1										2	4	WILLIAM CAREY COLLEGE MISS
																		1	3	

Appendix B
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Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WM JENNINGS BRYAN COL TENN	1920-66 1960-66												1 1							1 1	
WILLIAM JEWELL COLLEGE MO	1920-66 1960-66	51 12	2	11 5	1	35 7	11 6	3 1		3	1		13 7		2	2	5 3	1 1		3	
WILLIAM & MARY, COLLEGE OF, VA	1920-66 1960-66	94 30	7 4	31 7	4 3	52 17	14 7	12 8		4 2	1 1	1	46 14	1	4 2	8 5	9 3	2 1		22 3	
WM MITCHELL COL OF LAW MINN	1920-66 1960-66																				
WILLIAM PENN COLLEGE IOWA	1920-66 1960-66	12	2			9	1	2	1				6 1	1		1	1			3 1	
WILLIAMS COLLEGE MASS	1920-66 1960-66	163 59	10 3	42 19	4 2	6 5	67 17	11 4	13 8	30 12	14 8	1	4 4	31 17	1		11 9	7 4	2 2	10 2	
WILLIMANTIC ST COLL CONN	1920-66 1960-66																				
WILMINGTON COLLEGE OHIO	1920-66 1960-66	10 2	1	2 1			6 1				1	1		21 8	3 1		3 1	9 5		6 1	
WILSON COLLEGE PA	1920-66 1960-66	12 4	3	1			8 4	3 2	2 2					17 5	1 1		3 4	4 4		9 1	
WINONA STATE COLLEGE MINN	1920-66 1960-66	4 1	1 1	1			1 1		1					8 5	1 1		2 1	1 1	1 1	3 1	
WINSTON-SALEM STATE COLL	1920-66 1960-66																				
WINTHROP COLLEGE S C	1920-66 1960-66	4	3				1		1				7 2			1				6 1	
WISCONSIN CONSERVAT INC	1920-66 1960-66	1					1	1													
WISC ST UNIV EAU CLAIRE	1920-66 1960-66	8 4					7 4	3 3		1			3 3					1 1		2 2	
WISC ST UNIV LA CROSSE	1920-66 1960-66	5 4					5 4						7 5	1 1	1 1	2 2	2 1			1 1	
WISC ST UNIV OSHKOSH	1920-66 1960-66	17 4		4			13 4	1 1	1				8 5			1 1	1			6 4	
WISC ST UNIV PLATTEVILLE	1920-66 1960-66	7 7					4 4	1 1	2 2		3 3		5 4	2 2		1		1 1		1 1	
WISC ST UNIV RIVER FALLS	1920-66 1960-66	20 10		3 1	1	15 8	3 1	6 3	1	1	1	1	29 18	21 15			2			6 3	
WISC ST UNIV STEVENS PT	1920-66 1960-66	10 8					10 8	2 2	2 2				9 7	3 2			2 2			4 3	
WISC ST UNIV SUPERIOR	1920-66 1960-66	11 3	4 1	1			6 2	2 2					13 5	2 1	1	3 2	2 1			5 1	
WISC ST UNIV WHITEWATER	1920-66 1960-66	4 1		1			2	1			1		7 3			1	3 1			3 2	
WISCONSIN UNIVERSITY OF	1920-66 1960-66	1059 345	72 35	142 48	6 6	15 11	434 84	60 26	54 26	114 47	297 131	72 31	61 22	1015 241	259 80	123 31	222 49	204 42	9 9	198 30	
WITTENBERG UNIV OHIO	1920-66 1960-66	34 7	4	6 2			22 4	3 3	4 1	2 1			21 6	1	1	8 4	5 1			6 1	
WOFFORD COLLEGE S C	1920-66 1960-66	40 17	15 7	2			23 10	5 5	3 3				9 4	1 1	3 1	2 1	1			2 1	
WOMANS MED COLLEGE OF PA	1920-66 1960-66												3		3						
WOODBURY COLLEGE CAL	1920-66 1960-66																				
WOODSTOCK COLLEGE MD	1920-66 1960-66	10	1	7			2	1					2					1		1	
WOOSTER, COLLEGE OF	1920-66 1960-66	160 48	14 6	31 8	2		90 29	14 11	16 11	22 5	3	2	57 19	3 2	4 2	9 3	19 8			22 4	
WORCESTER POLYTECH INST	1920-66 1960-66	160 57	5 3	28 11	3 1	4 2	61 15	5 3	13 9	2	64 28	22 11	10 6	9		6	1			2	
WORCESTER STATE COLL AT	1920-66 1960-66																				

Doctorates by Field														Institution of Baccalaureate					
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC			PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION
1	1					4	1	1	1		1	2		2	2	2	10	WM JENNINGS 5 RYAN COL TENN	
28 13	12 6	5 3	9 4	2	26 9	4	6	5	3	3	4	1	12		11	34	164 54	WILLIAM JEWELL COLLEGE MO	
56 29	31 18	5 2	8 3	10 6	63 19	21 10	16 3	11 1	1	7 3	1	5 2	16 5	6 2	6 2	63 23	338 120	WILLIAM & MARY, COLLEGE OF, VA	
					1	1							1		1		3	WM MITCHELL COL OF LAW MINN	
10 2	2	3 1	4		19 2	6	4 1	1 1	1	1	3	3	2		2	12 2	61 7	WILLIAM PENN COLLEGE INWA	
77 19	14 4	8 2	6	21 9	26 4	160 50	52 21	16 4	8 1	18 4	2 2	6 1	12 1	2	3 1	15 4	458 150	WILLIAMS COLLEGE MASS	
1	1															10 6	11	WILLIMANTIC ST COLL CONN	
2 1				2 1		5	2	1			2		3 1	1	2	21 10	62 22	WILMINGTON COLLEGE OHIO	
6 3	3 1	1 1		1		21 3	4	6 1	6 2	2	3		3 1		3 1	7 4	66 20	WILSON COLLEGE PA	
8 2	5 1		1 1		1	8	3	1		1		2	1			27 9	55 17	WINONA STATE COLLEGE MINN	
1	1															6 3	7	WINSTON-SALEM STATE COLL	
3 1	1					13 3	4 1	5	2 1	1		1		4 2		15 5	46 13	WINTHROP COLLEGE S C	
1	1					1						1					3	WISCONSIN CONSERVAT INC	
11 6	3 2			2 1	5 3	12 9	5 3	3 3			4 3		1		1	32 16	67 38	WISC ST UNIV FAIR CLAIRF	
3 3					3 3	10 6	6 3	3 2			1 1		2 2	1 1		75 35	102 55	WISC ST UNIV LA CROSSE	
3 1	1		1			7 4	2 1	2 1			3 2		1			27 15	63 29	WISC ST UNIV OSHKOSH	
5 2				4 2		7 1	3 1	2		1	1		1 1			28 13	53 28	WISC ST UNIV PLATTEVILLE	
11 5	1		1 1	7 3	1 1	12 4	5	2 2			5 2					31 21	103 58	WISC ST UNIV RIVER FALLS	
10 3	3 1	1	4 1	1 1	1 1	6 5	2 1	2 2			2 2					37 17	72 40	WISC ST UNIV STEVENS PT	
8 5	3 2		1 1	3 1	1 1	5 2	2 1				3 1		3 2			27 8	67 25	WISC ST UNIV SUPERIOR	
4	1			2	1	6 3	2	3 2				1 1	10 2	10 2		64 22	95 31	WISC ST UNIV WHITEWATER	
642 166	197 80	36 10	63 16	208 37	91 14	519 141	145 34	108 25	97 29	12 1	36 11	73 25	42 15	103 45	52 32	7 3	481 161	3819 1099	WISCONSIN UNIVERSITY OF
38 9	22 3	4	1	6 6	4	35 7	7 1	5 2	8 1	2	4	5 2	3 1	5 2		5 2	40 18	173 49	WITTENBERG UNIV OHIO
17 10	6 5		4 1	3 3	4 1	45 4	9	27 3	7 1	1				10 1		8 1	35 12	156 48	WOFFORD COLLEGE S C
																		3	WOMANS MEN COLLEGE OF PA
1 1				1 1														1	WOODBURY COLLEGE CAL
15 1	4	2	2	6 1	1	38 6	5 1	7 2	1	10	14 3		6 1		6 1	3 1	74 9	WOODSTOCK COLLEGE MD	
56 20	17 9	3 1	7 4	15 1	10 3	116 30	44 12	34 6	9 3	5	9 1	7 4	6 4	22 6	1 1	17 5	57 18	468 141	WOOSTER, COLLEGE OF
4 1	1			3 1										1	1		2	176 58	WORCESTER POLYTECH INST
4 2	1		1		1 1	4 1	2 1	2								12 9	20	WORCESTER STATE COLL AT	

Appendix B
continued

Institution of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS	PHYSIOL, BIOPHYS	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL	ECOLOG, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL
WYOMING UNIVERSITY OF	1920-66	84	7	13	2	1	28	7	7	24	12		3	97	39	4	11	10	3	30	
	1960-66	37		8	2	1	14	7	4	7	8		3	38	21	2	11	3	2	7	
XAVIER UNIV OHIO	1920-66	67	9	11		4	44	20	6	2	1		8				5	1		2	
	1960-66	39	6	8			24	16	5				3							1	
XAVIER UNIVERSITY LA	1920-66	6	1				5	3	2				4		2		4	1		1	
	1960-66	5						3									2	1			
YALE UNIVERSITY CONN	1920-66	796	71	194	13	19	267	57	38	78	186	47	46	188	14	27	65	22	4	56	
	1960-66	260	31	79	12	16	40	17	18	33	77	16	16	52	5	6	23	7	3	8	
YANKTON COLLEGE S D	1920-66	16	3				11		4		2			16	2	2	3	2		7	
	1960-66	4	1				2							3	1		1			1	
YESHIVA UNIVERSITY N Y	1920-66	70	28	14	2	2	27	12	6		1			10			6			4	
	1960-66	49	20	12			16							2			1			1	
YOUNGSTOWN UNIV, THE	1920-66	32	1	1		1	21	5	5		9		2	9			4	1		4	
	1960-66	16		1		1	9	4	4		6		1	5			3	1		1	
U.S. UNKNOWN AND DEFUNCT	1920-66	364		104		1	127			28	58	11	18	273	32	84		38		74	
	1960-66	182	24	70	1	1	35	12	11	15	38	5	13	67	4	12	19	6	1	30	
TOTAL U S	1920-66	66499	6783	12504	8561	1508	27857	5848	8390	4482	4873	3317	33173	36979	131	384	8693	7972	421	9321	
	1960-66	25699	2998	4869	7451	1230	7894	3348	2253	1811	8127	1555	1673	12465	1231	1231	3394	4284	283	2183	

Doctorates by Field																			
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Institution of Baccalaureate
41	13	1	4	17	6	18	6	8	1		2	1	8	5	1	64	33	312	WYOMING UNIVERSITY OF
14	3			8	2	3		2					5	4		33		130	UNIVERSITY OF
18	5		2	7	4	34	5	9	5	9	5	1	12	4	5	16		155	XAVIER
9	3		1	3	2	16	3	4	3	5	1		6	3	2	7		80	UNIV OHIO
5		2	1	1	1												6	26	XAVIER
2				1	1			1									5	17	UNIVERSITY LA
368	110	34	55	71	86	695	202	208	119	37	60	6	57	90	34	38	107	2244	YALE UNIVERSITY
130	47	16	7	26	30	209	61	51	27	13	25	4	27	41	21	18	26	718	CONN
10	6			2	2	24	8	5				10	1	2	1	1	17	85	YANKTON
3	2			1		6	1	2				2	1	2	1	1	7	25	COLLEGE S D
48	34		7	3	3	50	22	6	7	7	7		36		35	34		248	YESHIVA
28	22		2	2	1	26	13	3	2	4	3		12		11	16		133	UNIVERSITY N Y
7	5		1	1		11	5	2	1		1	1	1		1	16		76	YOUNGSTOWN
3	1		1	1		8	3	2	1		1	1	1			11		43	UNIV, THE
344	90	13	53	97	72	525	135	105	120	33	88	17	21	304	47	100	406	2216	U.S. UNKNOWN
136	30	7	12	31	48	230	58	43	62	37	38	6	14	98	16	34	110	823	AND DEFUNCT
34684	14955	1428	3836	7850	4945	34598	9459	9570	5640	14978	8016	2796	2132	8082	2729	3447	36245	217087	TOTAL U S
13126	6119	543	1259	2623	1866	12006	3087	3404	1774	376	964	1297	1027	3084	1434	1050	14598	80978	

Note: See Appendix G for listing of doctoral fields of United States doctorate recipients from foreign baccalaureate institutions.

APPENDIX C

Forty Leading Doctorate-Granting Institutions and Their Three Hundred Leading Baccalaureate Sources, FY 1958 - 1966

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																					
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS UNIV OF	MICHIGAN STATE INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
ABILENE CHRISTIAN COLL TEX	272	2		1		1	2					3	3	1	1	3							
AKRON UNIVERSITY OF ALABAMA	204		1			2		1				4	7		1	2		1		1			
ALABAMA UNIVERSITY OF ALBANY	76		4	1		1	1	7	8	2	10	3		6	5	3	1	4	3	3		2	
ALBANY SUNY AT ALBION COLLEGE MICH	136						21		4	8			2	7	7		2		1		4	3	
	284	1	1	1		2	3	1			1		3	3	2	3					14	15	
ALFRED UNIVERSITY N Y	225		4			1		2		3	1		2	4	1			1	9	1			
ALLEGHENY COLLEGE PA	211	2	2		1	1	2	1	4	3	1	1	1	6	2	1	1		3	2	5		
AMHERST COLLEGE MASS	78	1	13			5	1	2	17	9	5	1	44	7	1		4	6	1	25		12	
ANTIOCH COLLEGE OHIO	129	3	3	1		10	1	4	9	4			13	2	2		4	4		4	3	10	
ARIZONA STATE UNIVERSITY	168	3	2	8			5	2			2	2	1	1	3	3	2		1	3	4		
ARIZONA UNIVERSITY OF ARKANSAS	88	1	16	4		1	5	1	8	3	2	1	6	8	2	2	5	2		2	2	6	
ARIZONA UNIVERSITY OF AUBURN	71		7			3		1	1	4	2	2	2	17		1	4	2	3	3	5	3	
AUBURN UNIVERSITY ALA	87		1	1			5	1	5	4	15	1	16	1	6	1	2	1	2	3	2		
AUGUSTANA COLLEGE ILL	202	2	3			7	3	3		1		1	3	12	3	1	20	1			2		
BALDWIN-WALLACE COLLEGE OHIO	294	3							2				3	5	1		1	1			1	2	
BALL STATE UNIVERSITY IND	191		2			1	2	4				1	1	7	37		5				4	4	
BARNARD COLLEGE N Y	124	2	6	1	1	3		9	59	2		1	13		1			4	4	1	1	4	
BATES COLLEGE ME	207	8		1		1			6	6	1	1	7	2	2	1	5		1	1		1	
BAYLOR UNIVERSITY TEX	97	3	1	1	1		2	4	1	1	7	1	9	3	7		3	3	1	1		3	
BELOIT COLLEGE WISC	227					5		1			1		3	11	1	2	4	2	1			2	
BEREA COLLEGE KY	187	1	1	3		3	1	2	2	1	1	3	1	5	3	2			1	1	6		
BIRMINGHAM-SOUTHERN COLL	232	2	1					1		1	3	2		1	1		1	2	1				
BOSTON COLLEGE	104	27		1	16			1	1	3		1	28	4	3		2	4	2	11	1	2	
BOSTON UNIVERSITY	46	139	4	7	1	9	1	11	10	4	4	1	40	4	5		5	1	7	2	3	6	
BOWDOIN COLLEGE ME	185	3	3		2	1		2	11				15	3	1		3	1	2	7			
BOWLING GREEN ST UNIV OHIO	151		2	1		1		3	2	2			6	4	8		4		2		15	6	
BRADLEY UNIVERSITY ILL	209	1		4		1	1	2			1	1	1	13	9	3	4				5	1	
BRANDEIS UNIV MASS	251	2	1			1			2	1			16				5		2		3		
BRIGHAM YOUNG UNIV UTAH	35	1	23	12		3	8	2	5	9			11	24	13	7	5	1	3	4	6	9	
BROOKLYN COLLEGE	9	7	14	9	3	15	1	52	114	14	9	5	31	13	12	4	9	11	14	6	10	21	
BROWN UNIVERSITY R I	63	8	16	5	1	5	3	3	9	13	4		27	12	2	3	1	8	6	13		5	
BYRN MAWR COLLEGE PA	214		3	1	1		1		8	3			10		2		1		2		3		
BUCKNELL UNIVERSITY PA	191		1	1	2	1		2	1	4		1	6	2	3	2		1		3		8	
BUFFALO SUNY AT BUTLER UNIVERSITY IND	82	2	3	6	1	7		4	6	8	3	1	6	5	5		2	1	1	5	3		
	218	1			1	2	1			2		1	2	4	29	1	4	1			2	1	
CALIFORNIA INST OF TECHNOLOGY	42	1	44	40		6	9		6	13	3		29	6			5	3	12		1		
CALIF ST COLL AT LOS ANGELES	264		3	14										1	2		4	1					
CALIF STATE POLYTECH COLL	272	1	2	3					5		2			4		4	1				2		
CALIF, UNIV OF, BERKELEY	1	1	869	77	1	15	15	8	27	20	3	5	63	34	6	7	7	6	4	36	9	24	
CALIF, UNIV OF, DAVIS	135		17	3		1			15		4		3		1	1		1	1	4			

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Baccalaureate
Source
Institution

Doctorate Institutions Granting Doctorates FY 1958 - 1966																					Baccalaureate Source Institution	
MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS UNIV	SOUTHERN THE STATE UNIV	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL		
1				1	11	2	3	2	1	5		3					3	4	46	104	ABILENE CHRISTIAN COLL TEX	
3	4	8	5	7	2	3				5	4		3	1	8	2	6	3	154	282	AKRON, UNIVERSITY OF	
2	14	1		2	3	3	1			1	2	1					9	3	48	169	ALABAMA, UNIVERSITY OF	
1			1							2							5	1	12	72	ALBANY, SUNY AT	
																					ALBION COLLEGE MICH	
	1	1	1	3	9			1	1	2	1			6	2	1			33	91	ALFRED UNIVERSITY N Y	
1	2				3	2	12	1	3	2	1	2	1				1	3	25	99	ALLEGHENY COLLEGE PA	
2	2	1	6		3	3	1	12	4	3	3	12	1			5	5	15	39	271	AMHERST COLLEGE MASS	
6	3	2	7	14	2	2	1	2	3		2	8		1			8	7	36	181	ANTIOCH COLLEGE OHIO	
	1		1	1	2	2	3	1	1	2		7	5		2	1	4	3	56	134	ARIZONA STATE UNIVERSITY	
2			3	3	6	1			1	8	1	8	10		8	1	7		112	248	ARIZONA, UNIVERSITY OF	
3	13		2		8	5	1		2	21	4		2		10	1	10	1	164	307	ARKANSAS, UNIVERSITY OF	
1	4	2	9		10	1				4			3	1	1		5		145	253	AUGURN, UNIVERSITY ALA	
5	1			4		1				1		1	1				14	2	14	106	AUGUSTANA COLLEGE ILL	
	1		1	1	7	1		2				3					3	1	30	69	BALDWIN-WALLACE COLLEGE OHIO	
2					2	3				7		1	2	1			2		26	114	BALL STATE UNIVERSITY IND	
4		19				1	3		1		1	1	1	1			4	15	21	184	BARNARD COLLEGE N Y	
		3		3	2				3	3	2			2					4	35	101	BATES COLLEGE ME
2	3	1	3		2		2	1	1	1		2	4		38	3	4	7	104	230	BAYLOR UNIVERSITY TEX	
3			1	4	2	1				1			2	2		2	12	3	24	90	BELOIT COLLEGE WISC	
1		2	2		3	3	2	1	1	3		1	1	1	1	1	4	1	53	118	BEREA COLLEGE KY	
		2	5	4	1	1	1	1		1							1	1	54	88	BIRMINGHAM-SOUTHERN COLL	
1	2	1	2			2	3	1	2	4	1			2			11	1	81	221	BOSTON COLLEGE	
5		9	3	2	3	2		7	3	4	5		2	4	3	1	5	6	81	409	BOSTON UNIVERSITY	
1			4	3	1	2	4		6		1		4	3		1	2	8	26	120	BOWDOEN COLLEGE ME	
3	4			3	29	1				3		1		3		1	5	2	41	152	BOWLING GREEN ST UNIV OHIO	
		2		2	5	1	1			3		2	1		1		5		30	100	BRADLEY UNIVERSITY ILL	
		3			1		1	1	5		1		2					3	4	26	80	BRANDEIS UNIV MASS
12	2	1	1	6	13	10	1	2	5	16		19	18	4	9	12	9		216	502	BRIGHAM YOUNG UNIV UTAH	
14	1	272	4	9	18	19	40	12	11	31	36	8	9	14	6	6	28	31	290	1233	BROOKLYN COLLEGE	
4		5	1	8	1	4	3	2	9		5	1	7		1	5	9	29	116	349	BROWN UNIVERSITY R I	
		4				1	11						3	1			2	13	27	97	BRYN MAWR COLLEGE PA	
	1	3		1	2	13	7	2	4	2	7		2	1			1	2	28	114	BUCKNELL UNIVERSITY PA	
5	1	1		3	7	7	1	2	2	4	1		2	12		1	5	3	133	259	BUFFALO, SUNY AT	
1	1			1	2	1	1			8						1	1	4	2	19	94	BUTLER UNIVERSITY IND
6		3		3	2	4			13	3		14	43	1	1	6	9	12	129	427	CALIFORNIA INST OF TECHNOLOGY	
		1			1					1		30	1	1		2			14	76	CALIF ST COLL AT LOS ANGELES	
1					3					7	3	4	1				4		27	74	CALIF STATE POLYTECH COLL	
19	2	9	3	13	7	3	7	4	17	10	3	60	96	4	8	46	30	10	249	1837	CALIF, UNIV OF, RERKLEY	
2	1				2	1				3	1	1	1		1	1	4		102	171	CALIF, UNIV OF, DAVIS	

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																					
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV, TEACHERS COLL	COLUMBIA UNIV	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA UNIV	IOWA STATE UNIV OF SCI AND TECH	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV	
CALIF., UNIV OF, LOS ANGELES	10	4	73	595	1	14	8	10	14	7	3	2	26	10	11	3	6	4	2	5	2	17	
CALIF., UNIV OF, RIVERSIDE	235		6	9						3			1	1	1		1		1		1		
CALIF., UNIV OF, SANTA BARBARA	166		11	23		1			1	3	1	2	2	5		1	2		2	1	4		
CALVIN COLLEGE	134		3			7	3	4		1			3	10		4	4			36	31		
CARLETON COLLEGE MINN	123	2	5			9	4	2	7	7			8	14	2	5	5	2	1	4	1	4	
CARNEGIE INST OF TECH PA	43		14	3	3				1	4	9		1	12	13	1	2	3	2	7	14	1	7
CASE INSTITUTE OF TECH OHIO	83		11	1		4				2	4		4	4	12		1	1		9		15	
CATHOLIC UNIV OF AMERICA O C	114	1	1		104	1	1	1	2			1	3					4	5	1		1	
CENTRAL MICHIGAN UNIV	216		1				2	2					1		3		2		1		28	17	
CENT MISSOURI STATE COLLEGE	225		1		1		2					1		4	6	1	4				1		
CHICAGO, UNIVERSITY OF	13	3	53	19	2	480	5	7	38	11	5		54	37	8	5	7	9	6	15	7	19	
CINCINNATI, UNIVERSITY OF	70	2	3	2		3	1	7	5	5	3	5	3	8	6		1	3		7	3	7	
CITY COLLEGE OF CLARK U OF N Y	2	11	32	17	6	22	5	72	208	35	15	5	51	17	15	5	6	11	24	37	16	37	
CLEMSON UNIVERSITY S C	239	8	1			1	1				1	2	6	1	1		1			7	1	2	
COLGATE UNIVERSITY N Y	178								1			5	6		3	2	5		3		4	1	
COLORADO COLLEGE	190	3			3	4			1	7	4	3	1	10		2		1	4		2	1	6
COLORADO SCHOOL OF MINES	291		1	2			6			2			4	3	2	3		1		1			
COLORADO STATE COLLEGE	298		8	1		1	2		1	3			2	1		2			5			2	
COLORADO STATE UNIVERSITY	143	1	4	3	1		14	7						5	3	4	13					1	
COLUMBIA UNIV TEACH COLL N Y	79		11	1		1	10			13	2			15	2	14		1		2	10	6	
COLUMBIA UNIVERSITY N Y	38	1	17	14	1	9	124	7	4	12	5	1	19	9	10	8	7	1	3	4	5	11	
CONCORDIA COLLEGE MINN	247						45	2	1		2	2	2	2	1					1	2	1	
CONNECTICUT, UNIVERSITY OF	14	6	18	17	1	13	4	31	348	18	1	6	51	15	13	1	8	14	11	20	1	23	
COOPER UNION N Y	230	1		1		3	3	1					1	4	2	4	2	1	1			1	
CORNELL COLLEGE IOWA	65	4	7	3		1	2	4	9	10	2	3	7	15	3	6	2		12	2	5	10	
CORNELL UNIVERSITY N Y																							
DARTMOUTH COLLEGE N H	147	1	6	2					14	3		3	3	8		1		3		10		6	
DAVIDSON COLLEGE N C	251	3	1	1		4	4	3	2	1			1	2	1	1	17			1	1		
DAYTON, UNIVERSITY OF	12	4	43	5		18	3	12	47	238	2	8	85	31	5	11	4	11	10	45	17	48	
DELAWARE, UNIVERSITY OF	47	11	11	1		10	3	4	26	10	6		8	7	2	2	8	1	9	1	16		
DENISON UNIV OHIO	176	2		1		2		3	2		19	2	4				1	1	1				
DENVER, UNIVERSITY OF			2	2	7	1				1		1		7	3	7			1	1	4	3	
DEPAUL UNIVERSITY ILL	163	2	4		2	3		1	2	2	2	1	4	5	1			4	4	2	1		
DETROIT, UNIVERSITY OF	201		1			3		2	1				2	4	3	3	1	1	1		2	3	
DRAKE UNIV	94	3	13	4		2	17	10	5	2		3	5	5	8		2		1		4	6	
DREXEL INST OF TECHNOLOGY PA	195		1	1	9	1	1						1	5	5		1		1		6	5	
DUKE UNIVERSITY N CAR																							
DUKE UNIVERSITY N CAR	115	4	3	1		6	2		1	5			8	15	28	1	5			1	6	7	
EDINBURGH UNIV	157		2	1	4		1		2				2	1	6	3		1	1	13	28		
ELMIRA COLLEGE	209	1		2		2	1	5					2	4	4	2	14		1		1		
EMORY UNIV	176	1	4		2				3	2	1			5	1			1	1	3	3	1	
EMORY UNIV	64	1	4	3	1	4	1	3	10	7	54	9	18	9	4		5	4	6	2	6		

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Doctorate Institutions Granting Doctorates FY 1958 - 1966																					Baccalaureate Source Institution
MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS - THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL		
8	2	8	3	6	5	3	5	3	11	3	2	153	32	1	9	20	6	12	118	1277	CALIF, UNIV OF, LOS ANGELES
	2			3					2				4		2	4	1	3	42	87	CALIF, UNIV OF, RIVERSIDE
		2		1					3	1		20	7		3	4	3	2	30	135	CALIF, UNIV OF, SANTA BARBARA
2				9	3		1		9			1	1			1	3	4	32	177	CALVIN COLLEGE
9	2	1	1	5	2	1	1		3	5	2	2	8		1	3	12	14	31	185	CARLETON COLLEGE MINN
6	1	8	2	3	6	3	3	27	7	1	1	2	14	2		2	2		237	424	CARNEGIE INST OF TECH PA
1			1	3	15	1		4	3	10		1	7	1		2	5	4	132	258	CASE INSTITUTE OF TECH OHIO
1		4	2		1	1	7	2	3	1		2	3	1	1		2	5	41	203	CATHOLIC UNIV OF AMERICA D C
1				4	3	2							1	1			2		25	96	CENTRAL MICHIGAN UNIV
	24			2	1				1		2			1		4			35	91	CENT MISSOURI STATE COLLEGE
15	2	17	4	25	4	1	8	3	13	4	3	6	17	3	5	8	15	26	138	1107	CHICAGO, UNIVERSITY OF
1		4		2	26	6	1	11	1	9	1	2	2	3	1	3	12	4	148	311	CINCINNATI, UNIVERSITY OF
13	1	356	4	12	21	36	20	13	30	27	47	12	21	23	10	5	32	33	463	1826	CITY COLLEGE OF CITY U OF N Y
		3		1		1	1		3	1	1				3		2	3	38	85	CLARK UNIV MASS
	1	1	3		1	1	1		3	2					1		3	2	77	126	CLEMSON UNIVERSITY S C
1	1	5	2	1			3	1	4		4		1	3	1		2	4	30	115	COLGATE UNIVERSITY N Y
						2	2		2		2	4	2	1	1	2	3	24	70		COLORADO COLLEGE
1						2			2			3		1	1			30	68		COLORADO SCHOOL OF MINES
2	2	2			2	1				4		6	4	1		1	2	1	79	163	COLORADO STATE COLLEGE
6	3			1	6	3			9	4	1	3			3	9	1	133	270		COLORADO STATE UNIVERSITY
6	4	3	3	5	7	2	4		8	6		11	29	1	6	16	4	9	91	487	COLORADO, UNIVERSITY OF
1		9		1	1					2	2							6	82		COLUMBIA UNIV
8	1	47	2	4	11	6	9	5	35	11	18	5	10	3		5	33	39	140	1012	TEACH COLL N Y
10	2	1		1		2			3				1		1	2		40	89		COLUMBIA UNIVERSITY N Y
7	2	9	3	4	7	7	9	4	4	5	7		3	3		3	13	14	127	338	CONCORDIA COLLEGE MINN
		23		5	1		2	4	3	3					3		1		49	156	CONNECTICUT, UNIVERSITY OF
5	1			4	2			1	2		2						5	1	14	80	COOPER UNION N Y
21	1	29	6	3	10	17	20	5	26	37	16	4	36	7	4	11	48	34	183	1169	CORNELL COLLEGE IOWA
8	1	9	5	4	7	4	4	3	20	2	8	2	23	5	1	11	15	22	69	399	CORNELL UNIVERSITY N Y
	1	1	24	1	2		1		7	3					3			7	39	127	DARTMOUTH COLLEGE N H
				1	1	22	1			11			2		1		1		44	124	DAVIDSON COLLEGE N C
8		2	3	1	5	4	7	1	4	4	4	1	1	1	2		4	3	43	138	DAYTON, UNIVERSITY OF
2	1	2	1	5	16		3	2	5	2	1	1	3	1		2	6		27	107	DELAWARE, UNIVERSITY OF
2	1	1		3	3	3	1	1	1	1		5	6	4	7	4	5	2	94	734	DENISON UNIV OHIO
1				17					2		1						6		46	110	DENVER, UNIVERSITY OF
2	5		2	7	4	2	3	1	3	14		1	2	1	1	3	11	8	38	201	DEPAUL UNIVERSITY ILL
			1	10	2	2	1	1		4		2	1		1		4	3	46	143	DEPAUL UNIVERSITY IND
2	3	2	4	1	1		2	1		1					1	2	1	1	38	100	DETROIT, UNIVERSITY OF
		1		1	1	8	27	4	10	1	1		3	1		2			39	127	DRAKE UNIV
3		6	24	7	4	2	5	2	12	7	4	3	8	2	2	1	6	13	78	340	DREXEL INST OF TECHNOLOGY PA
																					DUKE UNIVERSITY N CAR

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV	COLUMBIA UNIV, TEACHERS COLL	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
DUQUESNE UNIVERSITY PA	204			5		1	2	1				1	1				1	1	1	2	4	
EARLHAM COLLEGE IND	242	1		1	3			1	2	1	1	5	3	5				1		3	4	
EAST TEXAS STATE UNIV	264						2				1			3		1		1				
EASTERN ILL UNIV	211				1					1	1	1	28	4		8				2	2	
EASTERN MICHIGAN UNIV	221		1			1	2	1				1	3		2					22	30	
EMORY UNIVERSITY GA	109	6	3	2		4	1	1	4	2	11	12	7	6	8	1	5	1		1	1	
FLORIDA STATE UNIVERSITY	111		1	3			1	11			7	11	2	5	6	1	3	2		1	2	5
FLORIDA UNIV	39	1	7	4	1	4	2	7	1	6	9	185	9	12	7	4	1	3	7	2	6	8
FORDHAM UNIVERSITY N Y	68			1	8	4		10	24	9	1	1	9	2	3	5	1	6	5	2	3	2
FRANKLIN & MARSHALL COLL PA	169	2				1		1	1	3	2		5	2	1			3	3	3	6	1
FRESNO STATE COLLEGE CAL	197		17	9		1		3					1	1				1	1			
FURMAN UNIVERSITY S C	279					1		3			9	3	1				1					
GEO PEARSON COL FOR TEACH TENN	279					1		3		1		4	1	1	1		1			3	1	
GEO WASHINGTON UNIVERSITY D C	85	3	5	2	8	9	1	1	5	4	2	4	7	3	4			4	11	1	1	3
GEORGETOWN UNIVERSITY D C	197		3	1	4	3			6		1	1	7		1		1	4	3		2	
GEORGIA INST OF TECHNOLOGY	91		5	1		1	1		2	1	4	7	5	6	1	3		2		20	1	2
GEORGIA UNIVERSITY OF	75	1				4		6	4	8	3	15	4	10	4	7	1	3	3		8	3
GETTYSBURG COLLEGE PA	223		1			3	1				2		3	1		2		2	2		1	2
GONZAGA UNIV WASH	284		2	2	1		1		3				1				2					
GRINNELL COLLEGE IOWA	166	1	2	3		6	4	2	2	4	2	1	6	2	2	3	13		1	4	3	3
HAMILTON COLLEGE N Y	239					1		1	7	4			4	1	3			1	1			
HARVARD UNIV MASS	4	38	91	11	3	54	6	7	103	24	10	2	494	14	10	2	4	13	5	54	3	35
HAVERFORD COLLEGE PA	146	1	7	3		5	1	1	5	7	1		15				1	1	1	6	1	7
HAWAII UNIVERSITY OF	180	1	3	2		2	1	3	3	3			5	6	1	9	2	1		1	3	4
HOFSTRA UNIVERSITY N Y	227		1			1	1	5	9	1		3	3		1	1		2			1	
HOLY CROSS, COL OF THE, MASS	183	2	2	1	3	1		2	2	1	1	1	8	1		3		3		5	1	2
HOPE COLLEGE	223		2				1		2	1			1	9	2		3	1		1	16	19
HOUSTON, UNIVERSITY OF	193	1	1	1		2	1	2		1			2	2	1	1						2
HOWARD UNIVERSITY D C	258	2			3	2	1	3	1				2		1		1		2			1
HUNTER COLLEGE N Y	61		7	2	3	8	3	28	55	6	2	1	10	6	2		1	3	3		2	3
IOAHO, UNIVERSITY OF	106	2	17	1			1	1	2	4	1	1		14	2	6	3		1	2	8	8
ILLINOIS INST OF TECHNOLOGY	92		6	3	1	9	1		3	1		1	6	14		2	1	3	2	6	5	4
ILLINOIS STATE UNIV, NORMAL	162	1	1	3	1	1		5			1	1		35	6		7				6	2
ILLINOIS UNIVERSITY OF	3	4	59	16	3	39	11	8	12	42	2	6	22	598	32	25	26	4	8	33	38	32
INDIANA STATE COLLEGE PA	287					1	1	2		2					1		1	1	2			1
INDIANA STATE UNIVERSITY	169					1	2	3				2		10	48		1	1			5	4
INDIANA UNIVERSITY	35	3	10	5		7	6	5	8	2		4	6	17	225	1	5	7	3	2	10	13
IOWA, STATE COLLEGE OF	133			2	1	1	5	8						4	8	10	53		1		5	3
IOWA STATE UNIV OF SCI & TECH	23		12	4	1	6	4	1	4	16	7	2	6	15	5	269	23	2	4	12	24	4
IOWA, UNIVERSITY OF	34	2	4	6	1	3	5	5	9	1	1		13	19	4	15	239	1	1	1	3	11

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Doctorate Institutions Granting Doctorates FY 1958 - 1966																					Baccalaureate Source Institution
MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS UNIV	SOUTHERN THE STATE UNIV	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	
1			1	6	7	1	34		2	1						3	28	104		DUQUESNE UNIVERSITY PA	
2	1		1	3	3	4	4	1	4			2	1			3	2	22	84	EARLHAM COLLEGE IND	
	3				1		1		1		1		1	19				41	76	EAST TEXAS STATE UNIV	
2	2	1	1	4	8	1			4		1					2		25	99	EASTERN ILL UNIVERSITY	
	2			2	1	1						2	1	1		1		19	93	EASTERN MICHIGAN UNIV	
1			15	3	2	1	1	2	2		1	1		3	1	4	6	89	208	EMORY UNIVERSITY GA	
		2	7	2	5	2	2		1	3		1	2	3	3	2	2	106	206	FLORIDA STATE UNIVERSITY	
1	2	3	12	2	13	4		5	3	5	1	2	3		5	1	10	2	112	472	FLORIDA UNIVERSITY OF
4		34	4	3	9	1	1		9	11	8	1		4	1	1	2	5	126	320	FORDHAM UNIVERSITY N Y
2	1	4	2	10	2	9	9	1	8		3	2			1		4	3	37	132	FRANKLIN & MARSHALL COLL PA
1	1			1			1			1		11	11			8			39	108	FRESNO STATE COLLEGE CAL
			11		2		1			1	1				1		1		37	73	FURMAN UNIVERSITY S C
	2	1	1	1	2					1					1	1	2		44	73	GEO PEABODY COL FOR TEACH TENN
4		8	6	2	11	6	8	1	9	1	1	1	4			1	7	7	99	254	GEO WASHINGTON UNIVERSITY D C
2		5	1			3	3	1	3			1		1	2		1	4	44	108	GEORGETOWN UNIVERSITY D C
2		1	4		5	3	4		2	4			5		4		2		148	246	GEORGIA INST OF TECHNOLOGY
5	2	2	7	1	8	2	2	2		3	1	1			4		7	3	158	292	GEORGIA UNIVERSITY OF
		1			2	12	9	2	2	1	5			1		2	1	3	31	92	GETTYSBURG COLLEGE PA
1			2	2	2			1	1	3		1				9	4	1	33	72	GONZAGA UNIV WASH
8	1		1	9		1	1			7		1	2		2	2	3	1	32	135	GRINNELL COLLEGE IOWA
1		7		1		1	3		6					5	2		1	5	30	85	HAMILTON COLLEGE N Y
12		20	7	9	5	4	31		62	3	1	4	46	4	6	7	31	57	140	1432	HARVARD UNIV MASS
1		2	2	1	2	2	15	1	11	1	2	1		1	1	6		14	33	159	HAVERFORD COLLEGE PA
5		3	1	5	2	2				6		2	4			5	8	1	29	123	HAWAII UNIVERSITY OF
		13			1	4	2			2	4	1		1			1	1	31	90	HOFSTRA UNIVERSITY N Y
2	1	5	1		4		2	1	5	3	1			2			3	10	42	121	HOLY CROSS, COL OF THE, MASS
1		2		1				1		2	2			1	1		3		20	92	HOPE COLLEGE
1					1				1						19		2		70	111	HOUSTON UNIVERSITY OF
		7		3		3	4	2				1	2	2	1				34	78	HOWARD UNIVERSITY D C
2		94	1	3	2	3	7			4	9	3	1	1	2	1	3	10	65	356	HUNTER COLLEGE N Y
6	2		1	3			1		1	5		3	8		1	16	6	2	89	218	IDAHO UNIVERSITY OF
2		1	1	19	3	1	2		1	8		1	6				12	1	114	240	ILLINOIS INST OF TECHNOLOGY
1	4	3	1	8				1		3		1	2	2	1	1	6		36	140	ILLINOIS STATE UNIV NORMAL
43	12	9		44	18	15	11	6	14	54	8	12	23	2	6	17	70	5	220	1609	ILLINOIS UNIVERSITY OF
2		3		2	2	15	1	22				1		1			2		8	71	INDIANA STATE COLLEGE PA
1	2	1		1	4	3				11		3				1	3	1	24	132	INDIANA STATE UNIVERSITY
4	3	4	3	2	13	5	3	1	9	17	1	6	3	1	2	6	10	12	58	507	INDIANA UNIVERSITY
4	1	2	1	2	4	1				2		1	4	1	1		4		48	177	IOWA, STATE COLLEGE OF
27	9	1	1	4	10	7		1	2	41	1	5	5	2	3	5	25	5	103	678	IOWA STATE UNIV OF SCI & TECH
14	5	4	2	9	3	3	5	3	2	9		5	9	4	4	4	7	1	77	514	IOWA UNIVERSITY OF

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																								
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV	COLUMBIA UNIV, TEACHERS COLL	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV				
JOHN CARROLL UNIV OHIO	287				2			2					2					3	4							
JOHNS HOPKINS UNIVERSITY MD	67	5	1	3	4	2	3	7	4	4		12	2	2		2	126	22	4							1
JUNIATA COLLEGE PA	294	1			1		2		2		1	2	7					7	2	2						
KALAMAZOO COLLEGE MICH	262		3	3	2	1			2	1	1	6	6	2		7					1	2				
KANSAS UNIVERSITY OF	41	2	21	4	6	9	3	3	4			16	22	8	3	12	1		8	4	8					
																				5	19					
KANS STATE COLL PITTSBURG	193			2		1	1				2		2	4	2	7		1								
KANSAS ST TCHRS COLL EMPORIA	163	1		2			1		1				5	7		5				1						
KANSAS ST UNIV OF AG & AP SCI	50	1	7	3	4	3	3	1	13	1	2	3	33		24	5		4	3	2	5					
KENT STATE UNIV OHIO	129		2	1	6	2	5	1	6		4	2	9	4		2		1		23	1					
KENTUCKY UNIVERSITY OF	66	2	1	2	3	3	6	2	6	1	15	8	17	14	12	5		2	1	2	6					
																				11	5					
KENYON COLLEGE OHIO	235	2	1	1	2	1		3	2		2	8	3	1		1	3		1							
KNOX COLLEGE ILL	251		1	1	3	1	1		2		1	1	8	4	1	7		1		2	2					
LAFAYETTE COLLEGE PA	160		2		2	2	2	6	1	2		9	3	1	2	3	1	1	2							
LASALLE COLLEGE PA	272		2	1	5			1	1				2	2		2	1	2	3	3						
LAWRENCE UNIV WISC	232		1	1	4	3	4		1		1	8	5	5	1	1										
																				3	3					
LEHIGH UNIVERSITY PA	88		2	3	1		1	1	5	7	2		3	5			3		3	9						
LONG ISLAND UNIVERSITY	180		1		1			9	10	3		1		1					1	1	8					
LOUISIANA POLYTECH INST	214	1	3			1	2		1	1	1		1		2			2		1	6					
LA STATE UNIV & AG & MECH COLL	52		6	5	5	2	3	3	5	4	7	3	8	7	7	4		4	1							
LOUISVILLE UNIVERSITY OF	158		2		6		1	2	2	2		4	4	15	2				2	11	6					
																				4						
LOYOLA UNIVERSITY ILL	111		2	2	5	17	1			2		2	15	2	1	4	1		2							
LOYOLA UNIVERSITY LA	264			1							2	2	1	3	1		1	1		3	3					
LUTHER COLLEGE IOWA	272				2		1		1			2	4	1	9	21		1	2							
MACALESTER COLLEGE MINN	268	1	2	1	4	3	1	1	1		2		2		4	5			1							
MAINE UNIVERSITY OF	113	7	5			2	2	1	15	4	4	11	6	5	4	1	2	2	4							
																				7	2					
MANCHESTER COLLEGE INO	251	1			1	1	2		1	1			4	25			1									
MANHATTAN COLLEGE N Y	122		1		6	2	8	10	3		1	2	3	1	1		2	1	2	5	1					
MARQUETTE UNIV WISC	110		1		3	1	2	2		1	1	3	9	2	4	3	2	2	2	1	1					
MARSHALL UNIV W VA	279	1	1	1						1	1		4	2				2	1	7	7					
MARYLAND UNIVERSITY OF	45	1	1	2	5	2	2	3	4	13	4	9	9	11	6	3	3	9	128	2	2	2				
																				9	12					
MASS INSTITUTE OF TECHNOLOGY	6	5	62	12	2	17	5		42	22	5		67	37	14	8		8	14	563						
MASSACHUSETTS UNIVERSITY OF	73	11	1	2	1	4	1	3	22	1	2	13	16	6	3	4	1	6	8		1	32				
MEMPHIS STATE UNIVERSITY	287		2	2		1				3	2		4	1	1	1	1			15	7					
MIAMI UNIV OHIO	90	1	3	2	1	5	3	4	2	3	4	1	16	21	1	4		2	3							
MIAMI UNIVERSITY OF	96	1	2	3		3	1	3	1	5	5	25	3	7	6		3	1	3	1	8	11				
																				1	7					
MICHIGAN STATE UNIVERSITY	22		14	5		6	5	3	2	10	6	4	7	31	10	10	9	3	1	6						
MICHIGAN TECHNOL UNIV	197		5	1		1							1	2	1	5	2	1		6	260	38				
MICHIGAN UNIVERSITY OF	7	5	49	21	2	16	8	11	27	11	6	4	65	36	20	6	7	5	6	25	8	11				
MIDDLEBURY COLLEGE VT	180	2		1		3		7	8	2			10	1	2			1	1	10	45	551				
MILLSAPS COLLEGE MISS	284	5				1		1		3	1	1	1	3					1							

Doctorate Institutions Granting Doctorates FY 1958 - 1966																				Baccalaureate Source Institution	
MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS - THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER		TOTAL
	1				8	1		3		2				1			2		38	71	JOHN CARROLL UNIV OHIO
2	6	3	5	2	3	8	3	10	2		1	3		1		6	10	54	324	JOHNS HOPKINS UNIVERSITY MD	
1		1	1		20	3	2	1	4	1		1				1		15	69	JUNIATA COLLEGE PA	
			1				2					2	1	1		5	1	18	77	KALAMAZOO COLLEGE MICH	
3	6	2	2	5	3	4	4	1	4	5	2	4	18		9	6	16	10	195	445	KANSAS UNIVERSITY OF
1	10	1			2					4					5	2	2	1	65	111	KANS STATE COLL PITTSBURGH
1	4			2	1	1				3		2	1	1	2		3	1	87	138	KANSAS ST TCHRS COLL EMPORIA
16	5			2	9	1	2	1	1	23	1	1	6	2	6	1	23	1	155	390	KANSAS ST UNIV OF AG & AP SCI
2		4		1	36	2	1	3		4	2			1		4	6	1	61	181	KENT STATE UNIV OHIO
3	6	3	6	3	11	3	2	1	2	14	2	2	1	2	6	1	6	4	139	333	KENTUCKY UNIVERSITY OF
1				1	5	1	2	2	3	2		1	4			2	2	6	20	87	KENYON COLLEGE OHIO
1				1	2	1	1		1	3	1	2	2	1	2		4	1	23	80	KNOX COLLEGE ILL
2		3		1	2	9	11	5	5	3	1	1		2			1	13	37	141	LAFAYETTE COLLEGE PA
	1	1				3	17	2	2	1							1		27	74	LAFAYETTE COLLEGE PA
6			1	6	2						1		1	1	2	1	8	1	17	88	LAWRENCE UNIV WISC
	1	4		2	5	14	7	4	13	3	5		8	1	3	1	7	7	109	248	LEHIGH UNIVERSITY PA
2	1	29	1		1	1	4		1	5	3			1	1		4	1	34	123	LONG ISLAND UNIVERSITY
	4	1			1			1		3			1		7				64	97	LOUISIANA POLYTECH INST
3	3	2	9	3	8	1		2		7	2	4	7	2	17	2	5	5	218	386	LA STATE UNIV & AG & MECH COLL
4	1			2	1		1	2		4		1			1			1	78	142	LOUISVILLE UNIVERSITY OF
3	1	1	3	16	2		1		2	1	1	1	3		2	1	9	2	95	206	LOYOLA UNIVERSITY ILL
		1				1	2		3						1		2		54	76	LOYOLA UNIVERSITY LA
8			1									1				1	1		18	74	LUTHER COLLEGE IOWA
20		1		1	2		1		2		2		1		2	1	1	2	9	75	MACALESTER COLLEGE MINN
4	2	4		1	6	11	1	3		6	6		1	3			7	7	58	204	MAINE UNIVERSITY OF
	1			2	11		1		1	10		3					2		6	80	MANCHESTER COLLEGE INO
2	1	15	1		1	3	2		1	11	5		4	4		2	6	5	78	186	MANHATTAN COLLEGE N Y
10		3	2	11	2		1	3		6		2	1		4	1	54		55	207	MARQUETTE UNIV WISC
			1	1	9		2	1		3				1			1		36	73	MARSHALL UNIV W VA
4	3	6	1	4	11	9	9	4	3	3	2	2	2	4	2	2	15	5	88	417	MARYLAND UNIVERSITY OF
7	2	10	5	12	9	6	19	6	34	32	4	4	48	11		11	15	14	188	1353	MASS INSTITUTE OF TECHNOLOGY
7	1	5	5	1	6	4	2	1	2	7	13		3	4	4		9	9	82	295	MASSACHUSETTS UNIVERSITY OF
		1			1			1					1	1	3				44	71	MEMPHIS STATE UNIVERSITY
4			3		41	4	1	4	1	7		2	5	4	8		12	9	44	247	MIAMI UNIV OHIO
		5	6	5	2	3	1	3	1	3	1		2		10	2	3	2	101	731	MIAMI UNIVERSITY OF
16	4	2	2	6	12	4	4	2	4	26	7	7	10	1	2	2	38	7	98	684	MICHIGAN STATE UNIVERSITY
2	1			6	3	1				6			4	2		2	9		28	108	MICHIGAN TECHNOL UNIV
21	1	13	1	14	19	9	11	5	8	17	6	11	29	5	5	6	36	18	180	1341	MICHIGAN UNIVERSITY OF
3		5	3			1	1		4	1	2		4	5			1	5	37	173	MIDDLEBURY COLLEGE VT
	1				1										3			1	49	72	MILLSAPS COLLEGE MISS

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																					
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV	COLUMBIA UNIV, TEACHERS COLL	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA UNIV	IOWA STATE UNIV OF SCI AND TECH	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
MINNESOTA, UNIVERSITY OF	8	4	31	23	2	11	11	18	11	21	3	3	23	22	10	19	19	6	9	11	19	25	
MISSISSIPPI STATE UNIV	136	1	2					1	1	5	2	5		6	2	4		6		2	1		
MISSISSIPPI, UNIVERSITY OF	258		1					1		1			2	5	3							1	
MISSOURI, UNIV OF, COLUMBIA	28	2	15	3		9	4	6	3	7	2	5	6	27	5	22	8	2	3		10	7	
MISSOURI, UNIV OF, KANS CITY	247	1	3		1	1	2	1	1	1	2	2	4	1		5	3		1				
MISSOURI, UNIV OF, AT ROLLA	203		2	1						1		1		10		6			2	3	1	2	
MONTANA STATE UNIVERSITY	139		5	2		4	3			4			2	2		7	3	2			6		
MONTANA, UNIVERSITY OF	151		8	3			1	1		2	5		1	1	4	3	5			1	3	11	
MONTCLAIR STATE COLL N J	221		1				1	17	3	1			4	2					2			2	
MOUNT HOLYOKE COLLEGE MASS	217	4	3	1			1	2	10	5	1	1	11	3	2		2			1		4	
MUHLERBERG COLLEGE PA	242			1		1			3	4			1	1	1	2	2	1	3	1			
MURRAY STATE COLLEGE KY	272					1		1				2		3	9	2	1				2		
NEBRASKA, UNIVERSITY OF	31	2	9	5		3	11	10	4	3	1	1	5	18	5	23	15	2	1	1	16	13	
NEVADA, UNIVERSITY OF	264		7	2		1	2		2	2	1		1	2		1	2	1				1	
NEW HAMPSHIRE, UNIVERSITY OF	98	8	5	1		1	3	4	4	7	5	2	18	10		5	2	1	4	4	3	4	
NEW MEXICO STATE UNIV	242			1	2			2	1		2		3		3		4	1	1		1		
NEW MEXICO, UNIVERSITY OF	124	1	11	8		5	6	2	3	1			6	5	2	1	1			1	4	5	
NEW YORK, UNIVERSITY OF	11	4	19	11	5	13	7	58	59	13	2	5	25	10	11	2	5	9	7	17	4	16	
N C STATE UNIV AT RALEIGH	98		7	1	1		1			7	14	3	2	3		11		1	2	2	5	2	
NORTH CAROLINA, UNIVERSITY OF	54	1	4	1		5	1	6	5	6	1	6	7	6	2		2	9	4	2	2	12	
NORTH CENTRAL COLLEGE ILL	291	2	1			5		1	2	1			1	11	1	1	1				5	3	
NORTH DAKOTA STATE UNIV	171		4	1		1	2	1		2			1	1		11	1	1		5	10	2	
NORTH DAKOTA, UNIVERSITY OF	213		1	1		1	1			1			2	4	2	2	2				2	4	
NORTH TEXAS STATE UNIV	77	1	3			5	2			1	1	1		9	4	4	4	1	1		4	1	
NORTHEASTERN UNIV MASS	173	14	3	2		1			3	2		1	11	1		1	2		1	15	1	3	
NORTHERN ILL UNIVERSITY	197		2			5	3	3						22	16	3	6		1		1	4	
NORTHWESTERN ST COLL OF LA	294						1						1	4	3		1					1	
NORTHWESTERN UNIVERSITY ILL	27	2	22	14	1	25	1	8	8	6		2	33	31	18	3	9	1	3	16	8	20	
NOTRE DAME, UNIV OF, IND	49	2	9	2	8	17	2	1	7	8	1	1	6	13	13	8	3		6	11	6	13	
OBERLIN COLLEGE OHIO	32	9	14	5	1	19	4	8	20	6	11	2	58	19	13		17	15	1	5	5	45	
OCCIDENTAL COLLEGE CAL	154	2	11	15		2	2	3	4	3			5	1	1	1		1	1	2		1	
OHIO STATE UNIVERSITY	15	1	19	10		4	3	21	16	10	3	6	13	19	13	7	4	4	8	3	20	19	
OHIO, UNIVERSITY OF	100		2	1		2	1	9	5	2	3	5	6	12	15	3	5	1	2	1	4	16	
OHIO, WESLEYAN UNIVERSITY	140	8	1			5	2	5	2	2	1		11	10	8		2			4	1	13	
OKLAHOMA ST U OF AG & AP SCI	33	2	3	4		5	7	1	2	8	1	7	3	15	8	22	2		4	1	20	2	
OKLAHOMA, UNIVERSITY OF	140	3	12	5		7	5		3	2	3	3	8	17	12	9	3	3	3	1	5	10	
MUNICIPAL UNIV OF OMAHA	235		3	3	1	2	4	1	1					1	4	2	4				2		
OREGON STATE UNIV ORFG	59		27	3			3	1	5	6		5	2	12	4	10		2	4	2	7	7	
OREGON, UNIVERSITY OF	80	1	16	2		6	5	1	4	5	1	1	6	2	5	3	5		2	1	1	5	
PACIFIC, UNIV OF THE, CAL	291	1	11	1		3		1			1			2	1	1	1			1		1	

Doctorate Institutions Granting Doctorates FY 1958 - 1966

																					Baccalaureate Source Institution

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV	COLUMBIA UNIV, TEACHERS COLL	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
PENNSYLVANIA STATE UNIV	19	4	10	6	3	8	6	8	7	20	9	5	15	20	8	8	4	7	13	14	26	22
PENNSYLVANIA, UNIVERSITY OF	29	1	9	4		12	4	8	23	13		2	25	14	5		1	3	1	16	3	12
PHILA COLLEGE OF PHARM & SCI	272		1							1		1		1		i		2	1		3	
PITTSBURGH, UNIVERSITY OF	51	2	5	1		3	1	4	3	1	4		5	10	5		3	4	6	3	4	4
POLYTECH INST OF BROOKLYN	81		4	3		2			14	4			9	6			5	5	8	1	6	
POMONA COLLEGE, CAL	102	2	30	21	1	5			4	4			10	2	3	1	1	3		7	2	6
PRINCETON UNIVERSITY	23	2	24	6	2	17	2	4	36	18	3	2	103	18	4		1	17	4	31	3	7
PROVIDENCE COLLEGE R I	251	5			2					1		3	3	1					3	2	1	
PUERTO RICO, UNIVERSITY OF	173		1	1	1	5		7	2	6	2	2	2	3	5	3		1		6	4	
PURDUE UNIVERSITY	18		19	7	1	7	1	2	10	14	2	4	11	43	21	15	7	2	2	20	24	26
QUEENS COLLEGE N Y	58	2	14	3	2	7	3	11	36	5	3	1	17	8			5	3	4	4	4	11
RADCLIFFE COLLEGE, MASS	165	4	4	1		2			10	3	1	1	55	1	1			4		2	1	5
REDLANDS, UNIV OF, CAL	173	3	6	11		1	1		1	1	1		4		1		1		1	1	1	
REED COLLEGE OREG	105	2	12	7		16	1	1	14	7			13	5	2	1		4		5	2	3
RENSSELAER POLY INST N Y	44		9	3		4	3	2	8	18	1		21	5	1	2	3	9	2	35	2	5
RHODE ISLAND, UNIVERSITY OF	147	4	3					3		6	2	1	2	3	6	3	2	2	5	4	2	1
RICE UNIVERSITY TEX	69		9	3	1	1	6	2	2	4	11		10	12	2	1		7	2	6		4
RICHMOND, UNIV OF, VA	218				2	1	1	2	3	3	9	3	1	7	3		2	2				
ROCHESTER UNIVERSITY OF	54	3	8	7	3	7	3	6	11	17	2		16	12	7		6	4	1	10	4	11
ROOSEVELT UNIVERSITY ILL	154	2	1	2	1	30	2	1	2		1			18	5		6		1		3	4
RUTGERS, THE STATE U, N J	26	2	11	5		6	4	9	21	29	2	9	15	9	9	6	7	10	11	11	9	10
ST JOHNS UNIVERSITY N Y	120		2		5			12	10	2		1		2	1			7	2	1	2	
ST JOHNS UNIV MINN	268				6		2			1			2	2		13	1			1	1	
ST JOSEPHS COLLEGE PA	247			1	5			1	2	1		4	1		1	2		2	1	2		
ST LAWRENCE UNIVERSITY N Y	298	1				1	2		3	4	1	4	5		1		1	1		2	2	1
ST LOUIS UNIVERSITY	103		6	3	10	5		2		3			10	9		2	1	5		4	2	
ST OLAF COLLEGE MINN	131		5	1		7	7	3		3	1		7	8	4	3	8			2	10	6
ST PETERS COLLEGE N J	268		2		1				2		1		2				2	3				
ST THOMAS, COLL OF, MINN	251		1		1	3	2			1				2		4	6		3		1	1
SAN DIEGO STATE COLLEGE	124		26	31		1	3	1	1	4		4	1	2	3	3	3		1		1	1
SAN FRANCISCO STATE COLLEGE	158	3	32	9			1	8	1		1			2	3		4		2		3	
SAN JOSE STATE COLLEGE CAL	101		31	10		1	1	4		5	2		1	3	1			2		6	4	
SCRANTON, UNIVERSITY OF	298				2			1	2	2				1	1			2				
SETON HALL UNIVERSITY N J	245				8			6	3	1	1	1	1				2	2				
SMITH COLLEGE MASS	195	1	6	1		3		3	9	4			16	2	2					3		3
SOUTH CAROLINA, UNIVERSITY OF	188		2	1		1		2			7	3	3	4	2			2	2	1		
SOUTH DAKOTA STATE UNIV	160		1			3	1			1		1		9	1	10	3	1	1		4	
SOUTH DAKOTA, UNIVERSITY OF	257	1		2		1					1			4	4	4	4	1		1	2	4
SOUTHEAST MO STATE COLLEGE	247		1			1			1		1			2		12	5	1				
SOUTHERN CALIF, UNIVERSITY OF	56		15	19		6	1	2	3	3		2	7		1		3		1	5	1	2

Doctorate Institutions Granting Doctorates FY 1958 - 1966																					Baccalaureate Source Institution
MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA, UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PENNSYLVANIA, UNIV OF	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS - THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL	
15	2	9	5	9	22	268	31	26	9	23	11	4	6	5	4	8	15	10	162	867	PENNSYLVANIA STATE UNIV
7		6	4	4	2	3	204	6	16	4	8	1	4	4	2		10	15	103	559	PENNSYLVANIA, UNIVERSITY OF
2		1			1		5			6			1			1	9		37	74	PHILA COLLEGE OF PHARM & SCI
2		3	1	2	12	15	1	208	1	1	1	4	2	2	2	3	6	2	51	387	PITTSBURGH, UNIVERSITY OF
	1	12		4	2	7	4	4	6	2	5		3	4	1	2	3	7	129	265	POLYTECH INST OF BROOKLYN
1			1		2		4	1	5	3		10	10		2	7	9	8	59	224	POMONA COLLEGE CAL
11		5	3	14	4	7	19	4	93	3	4	2	28	2	1	5	20	49	105	678	PRINCETON UNIVERSITY
1					3		1	1		2	2			1		1	1	1	45	80	PROVIDENCE COLLEGE R I
2		10	2	1	3	5	4			3	4		1	1	1		5		35	128	PUERTO RICO, UNIVERSITY OF
9	4	2	1	9	24	5	6	5	6	359	7	5	11	4	6	6	19	9	137	872	PURDUE UNIVERSITY
11		54	3	4	4	4	5	2	6	10	2	4	3	3		1	8	20	80	367	QUEENS COLLEGE N Y
1		5					1	1			1		4	1			1	12	14	136	RAOCLIFFE COLLEGE MASS
4			2	2		1		3	1	1		26	11		1	14		2	26	128	REDLANDS, UNIV OF, CAL
3		1	2	1			2		5	1	1	3	11	3	3	20	1	8	59	219	REED COLLEGE OREG
3		6		4	8	4	5	5	15	6	1		11	1	1	3	2	18	194	420	RENSSELAER POLY INST N Y
6	2	2	1	1	1	4				8	7			1		2	6	4	62	156	RHODE ISLAND, UNIVERSITY OF
6		2		4	2	2	1	1	6	3		11			31	1	9	11	146	319	RICE UNIVERSITY TEX
			15	1	1		1		2	1	2		1	1			2	2	26	94	RICHMOND, UNIV OF, VA
2	1	5	1	6	7	3	9	4	8	6	4	4	6	13	1	1	14	10	136	379	ROCHESTER, UNIVERSITY OF
		1	3	16		1		2		2		4	1		1	1	2	1	34	148	ROOSEVELT UNIVERSITY ILL
6	1	27	1	5	14	18	18	4	19	9	179		3	8	2		26	19	96	650	RUTGERS, THE STATE U, N J
1		25	1	2	1	4	2		1	4	7	1		1	1	1	4		88	191	ST JOHNS UNIVERSITY N Y
13	1			3						2	1					2	4	1	19	75	ST JOHNS UNIV MINN
		1				1	16	1	4	1									35	82	ST JOSEPHS COLLEGE PA
		4		1	1	3			1					6		2	2	1	18	68	ST LAWRENCE UNIVERSITY N Y
3	4		4	6		2	4		4	2		1	6	1	1		4	3	116	223	ST LOUIS UNIVERSITY
21	1	3	1	4	2	1	2	1	1	5		2	2		3	1	23	7	25	180	ST OLAF COLLEGE MINN
		5	1			1			4		5		1	1			4		38	75	ST PETERS COLLEGE N J
25	1				1					1			1		1		1	2	22	80	ST THOMAS, COLL OF, MINN
3				2	3	1			4		16	14			3	9	5		38	184	SAN DIEGO STATE COLLEGE
1	1	4		2	1		1		1			9	17	1	2	5			28	142	SAN FRANCISCO STATE COLLEGE
2		1	1	2	4	3				7		13	42	1	1	12	6		60	226	SAN JOSE STATE COLLEGE CAL
		2			2	9	1	4		1	2			4					32	68	SCRANTON UNIVERSITY OF
		7			2	1				9			1			1			37	83	SETON HALL UNIVERSITY N J
1		8		1	1		1			3		6	1			1	1	18	15	110	SMITH COLLEGE MASS
1		1	5		3	1		2	1	4		1		1	1			3	63	117	SOUTH CAROLINA, UNIVERSITY OF
14	2				2	1				10			2			2	18		53	141	SOUTH DAKOTA STATE UNIV
3	2		1	2	1					3			3			2	5		28	79	SOUTH DAKOTA, UNIVERSITY OF
1	24			3	1								1			1	1		26	82	SOUTHEAST MO STATE COLLEGE
1	2	2	1	2	4	2	1	2	4	2	2	198	15	1	1	8	4	4	50	377	SOUTHERN CALIF, UNIVERSITY OF

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV	COLUMBIA UNIV, TEACHERS COLL	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
SOUTHERN ILLINOIS UNIV	107	2	1	2		7	1	2	1	3	2	2	1	36	15	4	6		1	3	8	5
SOUTHERN METHODIST UNIV TEX	117		7		1	3		1	8	1	4	1	6	5	4	2		1	1	1	6	
SOUTHERN MISSISSIPPI UNIV	258	1				2				3	2			2	3	1	1			1		
SOUTHWEST MO STATE COLLEGE	183	1		1			1	1						4	3	1	6		1	1	1	
SOUTHWESTERN LA UNIV	227			1				2		1		2	2	5		2	1			1		
SPRING HILL COLLEGE ALA	262		1		7							4	3				1	4	1			
SPRINGFIELD COLLEGE MASS	239	4	1	2		2		7					3	4	1		2			1		
STANFORD UNIV CAL	21	3	55	25	1	5	12	6	11	9	2		42	7	3		2	6	2	8	1	17
STEVENS INST OF TECHNOLOGY N J	279		4						5	1			1					2	1	4		2
SWARTHMORE COLLEGE PA	61	3	9	2	2	11		3	15	17	7		51	11	3		1	7	3	13	1	15
SYRACUSE UNIV	37	4	10	5	1	8	2	20	12	10	4	1	9	12	4	1	1	4	1	10	2	7
TEMPLE UNIV PA	48	2	2	4		3		7	14	6		2	4	4	4		1	4	9		3	8
TENNESSEE UNIV OF	74		4	2		3		4	3	8	4	5	4	11	4	8	2		3	3	9	4
TEXAS A & M UNIV	57		5	2		1			1	5	1	3	3	9		6	1	1		2	5	5
TEXAS CHRISTIAN UNIV	204			2		6	3		1		2	1	1	1	1			1	3	1	1	
TEXAS TECHNOL COLLEGE	94		1	1			3	4	1	5		1	2	2		6	2		1	1	6	2
TEXAS UNIV OF TOLEDO	16	1	24	13		9	7	8	8	5	2	2	24	20	8	3	3	5	3	12	3	11
UNIVERSITY OF TRINITY	245			2		1	1		1	1		2	1	5	3	1	1			3	19	
COLLEGE CONN TUFTS UNIV MASS	238	2	2		1		1	1	2	2	3	1	2	1	2		1	2		3	1	1
	92	18	7	6	1	4		4	10	4	1	2	34	7	2			3		13	4	10
TULANE UNIV OF LOUISIANA	124	1	3	2	2	4			1	1	2	3	8	1	3		1	1				5
TULSA UNIV	258		1	1		1	3	1	1				1	4	1	2					1	
UNION COLLEGE & UNIV N Y	132		2			5	1	1	5	3	2	1	11	10		2	3	5	2	3	2	5
U S MILITARY ACADEMY N Y	143	1	4	1	3		3		7	1			7	13		8	1	1	2	6		3
U S NAVAL ACADEMY MD	145		9	7	2	1	4	2	2	1	3	3	4	6	2			5	2	9		8
UTAH STATE UNIV OF AG & AP SCI	53	1	9	8		2	4	1		26			1	8	6	19	1	2	1	2	18	3
UTAH UNIV	25	1	29	10		6	7	9	5	3			21	7	7	5		3	3	9	3	7
VALPARAISO UNIV INDO	268		1	2		4	3		1					3	6	1	1	1		1	4	
VANDERBILT UNIV TENN	118	1	2	2		2		1	2	4	8	6	5	1	2		4		2	2	2	
VASSAR COLLEGE N Y	207	2	3	3		2		3	13	2	1	1	20	1	1	1		2			6	
VERMONT, U OF & ST AG COLL	156		3			2		4	5	13	1	1	5	1	3		1		4	2	7	6
VILLANOVA UNIV PA	218		2		11		1	1	4	1		2		1	1	2		1		2		2
VIRGINIA POLY-TECHNIC INST	108		2	1	1				5	14	4	1	6	1	4		3	5	7	5	2	
VIRGINIA UNIV OF WABASH	119	1		2		2		2	4	4	3	3	5	2	3		1	1	4	3	1	4
COLLEGE INDO	189		2	1		4	1		1	3	4	1	6	4	27	2			1	1	2	
WAKE FOREST COLLEGE N C	186						1	1	1	17	3	2	2	2			1	1			3	
WASHINGTON STATE UNIV	72		9	4		8	4	8	1	7	2	2	1	10	4	2	4	3	4	2	11	3
WASHINGTON UNIV MO	60	2	7	2	2	10	1	4	8	8	1	2	11	20	5	3	5	1	3	3	2	15
WASHINGTON UNIV OF WASH	20		43	21	1	10	4	15	9	6	3	2	19	14	6	4	4	5	2	9	4	14
WAYNE STATE UNIV MICH	30	1	13	4	1	19	1	4	6	4		1	5	13	7	4	8		5	8	21	106

Doctorate Institutions Granting Doctorates FY 1958 - 1966

																				Baccalaureate Source Institution
																				</

APPENDIX C
continued

Baccalaureate Source Institution	Institution Rank as Baccalaureate Source	Doctorate Institutions Granting Doctorates FY 1958 - 1966																				
		BOSTON UNIV	CALIFORNIA, UNIV OF, BERKELEY	CALIFORNIA, UNIV OF, LOS ANGELES	CATHOLIC UNIV OF AMER	CHICAGO, UNIV OF	COLORADO, UNIV OF	COLUMBIA UNIV	COLUMBIA UNIV, TEACHERS COLL	CORNELL UNIV	DUKE UNIV	FLORIDA, UNIV OF	HARVARD UNIV	ILLINOIS, UNIV OF	INDIANA UNIV	IOWA STATE UNIV	IOWA, UNIV OF	JOHNS HOPKINS UNIV	MARYLAND, UNIV OF	MASSACHUSETTS INST OF TECH	MICHIGAN STATE UNIV	MICHIGAN TECH UNIV
WELLESLEY COLLEGE MASS	149	2	2	1	2	5	1	2	15	3		23	0				1	1	2		7	
WESLEYAN UNIV CONN	116	2	5	1	1	2	1	4	10	6	2		25	6	2	2	2		7	1	8	
WEST CHESTER STATE COLL PA	294	1			1	1	2	5		1	2		1	1		2		3				
WEST VIRGINIA UNIVERSITY	85	1	1	1		3	1	2	2	7	2	6	2	16	8	5	2	1	7	1	3	1
WESTERN KY STATE COLLEGE	279							1			1	2	1	3	13	1				2		
WESTERN MICH UNIVERSITY	136			1		1	1	3				2	3	5	10	1	3			44	24	
WESTERN RESERVE UNIV OHIO	83	1	5	1	2	6		2	5	6	2	2	5	8	5	1	2	1	3		3	10
WHEATON COLLEGE ILLINOIS	121	2	2	2		11		4	2	5		3	7	14	11	2	2	3	4	1	9	6
WHITTIER COLLEGE CAL	272	2	5	9				2						1	2	3						
WICHITA STATE UNIVERSITY	172	2	2	1		1	3	2	3	2		3	2	14	1	2	4		1		2	
WILLAMETTE UNIV OREG	230	2	7			2	1		2	3	1		3				1	1		1	1	
WILLIAM & MARY, COLLEGE OF, VA	153	2	3			1	1	3	4	3	8		8	2	3	1	1	4	4	1	1	7
WILLIAMS COLLEGE MASS	124	2	1	1		3	1	1	11	2	2		37	5	2	1	2	4	1	13	1	5
WISCONSIN, UNIVERSITY OF	5	2	31	9	1	30	11	11	25	21	1	2	34	49	19	10	25	5	10	14	21	32
WOOSTER COLLEGE OF	142	1	2			7	1	2	1	1	2	4	4	9	8	1		1		2	7	5
WORCESTER POLYTECH INST	287	1	1	1	1		1			3			2	3	1				6	2	2	
WYOMING, UNIVERSITY OF	150		2	2		3	2		1			1	1	5		2	2		1		1	2
XAVIER UNIV OHIO	232				3	2	1		1			2		4	4	1		2			1	1
YALE UNIVERSITY	17	3	48	6		16	4	13	47	20	11		107	12	6		3	13	5	26	3	21
YESHIVA UNIVERSITY N Y	141	2		1		6		5	19	2			7						1	8	1	
OTHER B S INSTITUTIONS TOTAL		365	852	370	518	613	223	579	1076	691	285	288	695	1099	816	391	542	265	332	495	622	704
		994	3783	1968	898	2263	919	1731	3344	2223	907	1009	3774	3907	2251	1478	1656	968	1058	2253	2102	3126

Doctorate Institutions Granting Doctorates FY 1958 - 1966

Doctorate Institutions Granting Doctorates FY 1958 - 1966																					Baccalaureate Source Institution
MINNESOTA, UNIV OF	MISSOURI, UNIV OF	NEW YORK UNIV	NORTH CAROLINA UNIV OF	NORTHWESTERN UNIV	OHIO STATE UNIV	PENNSYLVANIA STATE UNIV	PITTSBURGH, UNIV OF	PRINCETON UNIV	PURDUE UNIV	RUTGERS - THE STATE UNIV	SOUTHERN CALIFORNIA, UNIV OF	STANFORD UNIV	SYRACUSE UNIV	TEXAS, UNIV OF	WASHINGTON, UNIV OF	WISCONSIN, UNIV OF	YALE UNIV	OTHER	TOTAL		
1	8	2	2	1	2	3	1		1	1	1	3	2		1	4	20	29	155	WELLESLEY COLLEGE MASS	
2	1	1	4	2	1	12	1	3	1			6	3		2	10	18	45	199	WESLEYAN UNIV CONN	
	2			1	11	10	1		1	1								22	69	WEST CHESTER STATE COLL PA	
3	5	3	4	4	28	6	3	9	1	9		1	1			14	2	89	254	WEST VIRGINIA UNIVERSITY	
	2		1	2	2		1		2		1	1				2		35	73	WESTERN KY STATE COLLEGE	
2	2	1	1	1	10	3	1		9		3	1		1		8		28	169	WESTERN MICH UNIVERSITY	
1		5		2	22	1	4	1	1	2	1	3	3	1	6	4	5	121	258	WESTERN RESERVE UNIV OHIO	
3		9	1	12	3		6	1	2	5	1	5	1		2		2	4	42	189	WHEATON COLLEGE ILLINOIS
1				1							30	4				1	1	12	74	WHITTIER COLLEGE CAL	
1	2	1		4	1		1	1	1		2			1		5		65	130	WICHITA STATE UNIVERSITY	
1											2	8	2		7	8	4	32	89	WILLAMETTE UNIV OREG	
	4	10	7	2	1	2	1	5		1				1		3	3	53	150	WILLIAM & MARY COLLEGE OF VA	
1	1		1	3		3	6		1	2	1	5	1	1		3	30	19	184	WILLIAMS COLLEGE MASS	
43	6	17	3	29	12	7	9	3	12	21	6	8	31	4	4	8	613	7	149	1355	WISCONSIN UNIVERSITY OF
4	1	2		3	13	1		6	3	1		1	2	2	4	1	9	10	43	164	WOOSTER COLLEGE OF
1						2		6	3			1					5	29	71	WORCESTER POLYTECH INST	
3	2	1		1	4	2		3	2	2	6	4	2	5	3	7	4	78	154	WYOMING UNIVERSITY OF	
1				2	4	1	1		5				1	2		2		46	88	XAVIER UNIV OHIO	
17		12	7	11	1	4	22	5	32	4	1	4	32	1	2	12	13	230	100	874	YALE UNIVERSITY CONN
	17					3	1	2					2			1	2	85	165	YESHIVA UNIVERSITY N Y	
782	285	609	311	402	786	496	472	368	302	590	282	436	534	255	513	393	1173	450	11112	32322	OTHER 6 S INSTITUTIONS
2590	981	2896	1029	1519	2726	1628	1706	1107	1414	2371	1028	1562	2393	840	1854	1450	3817	2158	33082	110845	TOTAL

APPENDIX D

Migration, State by State, From Baccalaureate to Doctorate, 1920 - 1966 and 1960 - 1966

State of Baccalaureate Institution	Year of Doctorate	Doctorates Granted by State of Doctoral Institution																							
		MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA
ME	1920-66	6	9	2	335	44	90	262	38	61	33	36	65	32	40	14	30	8		1	2	2	30	15	
	1960-66	6	7	1	85	22	19	75	19	29	11	15	18	18	14	13	3								
N H	1920-66	2	12	3	315	21	98	334	81	64	54	33	112	63	58	25	36	7		3	4	3	36	20	
	1960-66	2	12	3	93	10	34	87	36	28	17	15	28	24	24	25	9	1		1	1	3	14	10	
VT	1920-66		3	7	98	16	38	193	31	43	21	24	39	31	16	9	9	3			3	4	14	15	
	1960-66		3	7	41	4	11	57	15	15	9	13	14	14	2	3					2	1	5	6	
MASS	1920-66		30	6	5782	182	721	1971	341	489	192	260	728	367	283	126	131	82		12	24	14	262	207	
	1960-66		28	1	1922	86	273	615	173	178	82	136	248	172	94	39	41	22		5	12	6	94	63	
R I	1920-66		6	3	264	188	121	196	58	58	29	45	81	25	45	25	22	10	1		4		40	41	
	1960-66		4	3	75	65	54	62	20	22	9	22	24	11	15	10	9	4				13	16		
CONN	1920-66	2	1		462	291	402	599	129	163	69	69	180	104	95	55	53	14		1	8	3	79	44	
	1960-66	2	1		194	12	340	209	47	84	23	36	62	47	39	21	20	9			1	1	30	14	
N Y	1920-66	2	11	11	1847	155	9171	4928	813	1240	588	669	1160	716	574	243	332	152	3	26	103	49	539	569	
	1960-66	2	7	6	766	77	319	4882	415	522	217	333	412	348	228	101	118	63	2	11	48	22	212	217	
N J	1920-66	1	6	3	374	20	204	994	1048	252	86	80	168	77	115	37	40	22			8	10	134	65	
	1960-66	1	6	2	170	11	69	354	362	115	36	31	76	27	46	16	18	13			3	6	51	26	
PA	1920-66	5	4	3	933	73	429	1921	502	6243	450	350	700	399	293	142	164	74	3	15	39	166	402	314	
	1960-66	5	3	2	309	30	126	533	212	2080	185	175	196	184	100	47	51	37	2		16	78	110	126	
OHIO	1920-66		1	2	674	66	358	1345	180	551	4203	541	1048	643	454	158	296	99	3	25	37	13	219	164	
	1960-66		1	2	211	20	102	326	47	165	1440	254	316	309	131	44	80	39	2	10	13	8	53	53	
IND	1920-66		2		298	21	134	543	77	236	351	2368	847	337	283	75	199	83	2	1	21	28	8	96	
	1960-66		2		95	9	51	144	41	92	110	966	233	154	65	21	60	42			7	18	4	24	
ILL	1920-66	1	1	2	631	44	198	1154	136	332	305	604	6622	498	620	274	568	266	6	1	54	69	9	138	
	1960-66	1	1		227	19	53	293	53	107	105	289	1954	235	178	84	166	100	6		20	34	4	52	
MICH	1920-66	1	2	1	340	46	121	549	77	176	300	311	636	3905	294	121	200	70	4	2	17	31	5	95	
	1960-66	1	2	1	138	7	43	138	26	75	115	146	220	1536	119	44	67	27	2		3	20	2	88	
WISC	1920-66				214	19	62	400	47	87	116	175	550	207	2720	228	222	65	9	1	18	26	57	104	
	1960-66				64	5	15	103	19	26	46	85	192	93	714	85	81	25	3		7	21	20	29	
MINN	1920-66		1	226	5	120	390	55	102	39	80	159	418	173	278	2182	310	87	67	3	57	27		105	
	1960-66		1	68	5	33	102	21	39	23	78	135	135	84	98	724	116	34	44		3	23	20	31	
IOWA	1920-66		185	8	78	487	31	98	118	203	464	175	254	254	199	2278	86	42	7	13	74	46	7	55	
	1960-66		57	5	15	88	8	23	33	96	109	74	57	69	683	42	683	42	2	13	37	25	2	10	
MO	1920-66	1	1	186	8	112	457	40	130	109	172	585	148	177	103	314	1682			51	117	3	78	90	
	1960-66	1	1	56	4	16	83	9	48	38	75	176	54	53	29	104	610			23	61	2	26	39	
N D	1920-66		24	1	8	49	3	17	16	30	41	38	58	75	64	13	3	91	3	6	10	4	1	13	
	1960-66		6		1	9		5	5	14	8	22	15	27	20	3	48						2	4	
S D	1920-66		30	4	8	52	12	27	37	47	105	36	80	81	149	24	8	4	27	20	29	1	16	11	
	1960-66		10			11		8	6	31	30	12	24	26	41	8	8	25	15	10			4	3	
NEBR	1920-66		67	3	48	236	22	53	57	79	219	87	135	103	211	60	4	3	713	36	1	31	45		
	1960-66		11	5	33	4	16	4	21	29	43	37	36	23	57	21	1	3	321	23		5	7		
KANS	1920-66		171	9	68	311	29	93	123	158	456	162	74	207	111	267	123	1	1	65	757	2	54	63	
	1960-66	1	49	16	60	60	27	23	22	76	114	114	162	55	26	43	43			20	338		11	14	
DEL	1920-66		17	1	6	26	12	40	9	12	20	7	7	11	1	1			1	1	18	11	6	2	
	1960-66		9	1	3	10		18		7	8			6								3			
MD	1920-66	1		144	9	64	333	60	175	70	62	112	72	57	18	31	19	1	8	1	171	209	236		
	1960-66	1		52	2	19	113	27	78	33	30	43	40	25	7	8	9		5		11	313	81		
DC	1920-66		96	11	45	260	37	119	41	39	96	26	37	22	12	20			1	4	3	136	123		
	1960-66		33	5	18	65	16	38	13	17	19		9	8	5	6				2	1	33	236		
VA	1920-66		171	12	73	385	68	164	90	59	190	78	63	29	28	51	20		4	4	6	167	68		
	1960-66		40	3	13	91	28	58	24	23	30	23	25	5	11	9				2	5	31	27		
W VA	1920-66		47	4	23	161	15	161	142	68	89	52	56	20	4	50	13		1	4	30	49	23		
	1960-66		16	1	5	36	2	48	54	29	29	16	21	4		11				1	7	14			
N C	1920-66	1		162	15	104	372	76	117	75	70	158	76	75	23	56	17	1	5	9	5	91	37		
	1960-66	1		50	10	38	95	37	38	21	38	52	43	23	8	15	4		3	5	3	32	17		
S C	1920-66		40	3	36	171	32	4	44	15	49	65	35	35	15	29	7		4	6		37	12		
	1960-66		7	1	31	32		14	14	24	24	15	11	7	3	6			1	3		10	6		
GA	1920-66		131	6	54	246	34	57	92	51	140	58	81	24	42	8			3	6	5	68	22		
	1960-66		43	2	13	53	6	24	32	25	32	25	25	7	14	5				5	3	11	9		
FLA	1920-66		55	4	28	184	22	61	70	70	116	53	53	18	37	14			3	6	2	33	17		
	1960-66		23	1	9	57		25	21	35	41	27	14	2	9	8			1	2		18	6		
KY	1920-66	1		84	1	48	205	27	64	155	197	222	103	73	32	78	47	2	9	12	1	30	32		
	1960-66	1		21	1	8	41	8	22	53	104	66	31	11	9	21	15			4	5		9		
TENN	1920-66	1		109	6	70	248	34	57	101	102	186	92	85	25	64	37	2	5	9	4	53	15		
	1960-66		1	44	1	22	53	10	23	41	44	61	40	29	10	18	15			5	5	4	15	5	
ALA	1920-66		51	9	16	239	18	61	82	63	133	62	62	17	5	47	15		7	7	1	46	32		
	1960-66		17	4	57	57	2	20	28	27	48	16	19			14				5	1	17	16		
MISS	1920-66		35	2	18	77	3	25	24	56	86	20	42	9	36	22			2	10		28	9		
	1960-66		11		2	18		7	5	20	21		5	1	7	11				5			2		
ARK	1920-66		38	3	10	92	8	16	28	47	94	29	35	14	36	47			1	5	21	2	27	9	
	1960-66		6	1	2	12		7	9	25	31	13	13	3	8	24				1	14	1	9	1	

Doctorates Granted by State of Doctoral Institution

	VIRGINIA	WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	TOTAL U.S.	State of Baccalaureate Institution
41	124	1	2	8	1	5	2				4	4	10	1		1	3	1	2	1		9	1	43				1286	ME	
85	237		3	6	2	11				1	5	1	12		1	1	17	1	4	3		16	2	82				1599	N H	
21	12		2	7	2	2			1		1	1	5			2		3	3		3	1	20				684	VT		
1	6			3									4			1											263			
36	148	2	13	38	6	38	5	2	2	2	20	18	71		2	1	30	8	18	15		55	35	798		3	6	13599	MASS	
21	64		7	25	3	19					7	12	37				3	13	10			28	16	425				5006		
76	127	1	1	10	4	4	2	1	1	1	4	3	11	1			10	1		1		15	2	61		3		1430	R I	
6	9			7	1	1							2				5					9	1	41				532		
17	55	2	5	14	2	12					6	3	27				10	2	5	2		24	2	242			1	3992	CONN	
11	25	2	4	9	1	4						3	9				8					17	2	125				1423		
71	6287	3	24	165	26	88	7	2	5	4	25	42	141	2	2	6	140	24	37	32	2	89	46	1167		2	3	7	28118	N Y
36	3103	1	18	103	9	50	4		4		25	20	72			4	66	18	37	15		55	27	554		1	3	2	10566	
20	240	1	6	28	6	12	3				15	5	19	1		2	17	8	7	3		15	6	220			1	4185	N J	
9	15			21	5	9					8		13				9					11	2	116				1688		
72	29182	2	20	79	14	51	11	2	2	2	28	25	79	2	1	5	69	9	21	11		44	19	474		2	3	14880	PA	
29	1976	2	14	47		24	6		1		13	15	38		1	4	45	6	17	4		30	6	212				5233		
34	3147	1	13	110	25	51	7	3	2	2	26	16	103	3		8	45	6	23	6		61	39	518		1	4	2	12376	OHIO
18	265			70	9	20	5				15		55				4	4	20			28	23	216				4257		
20	766	1	16	54	17	36	4	1	2	1	26	24	60	1		3	83	10	19	13		41	23	317		3	6	6989	IND	
13	431		10	39	19	18	2				10	16	27				39	7	15	5		21	17	151				2607		
38	288	3	14	82	22	88	7	7	6	50	41	97	46	3	1	12	171	15	22	12		89	66	834		3	50	14531	ILL	
19	134	2	11	50	8	37	4		3	24	31	46				6	84	8	18	6		39	36	352				4876		
14	461	2	7	38	11	29	4	3	1	18	22	40	2	1	2	82	6	16	19			40	33	455		1	3	7	8313	MICH
6	327			19	7						4	14	18				40	3	13	12		12	18	227				3239		
3	135		4	27	3	23				3	13	20	34	2	1	12	93	8	16	11		33	22	258			2	5955	WISC	
15	12			14	2	10					7	12	22				65	4	10	6		21	13	96				1951		
8	233		1	20	4	18	1		2	12	12	34	5	1	15	125	6	18	10			73	34	330			6	5713	MINN	
9	462	1	5	19	12	18	6	2	4	22	23	39	20	3	1	18	125	5	11	8		36	19	144				2077		
5	229		3	12	4	7	3				8	17	20			9	68	2	11	3		54	37	278		1	3	5709	IOWA	
12	250		4	39	9	94	6	3	29	30	44	80	3		12	117	4	14	7			23	16	96			1	1821		
6	18		3	29	3	31	5				18	29	35	3		7	49	14	13	3		27	9	104			3	5462	MO	
1	19		2	3	1	2			1	3	8	2	8			3	27	2	3	2		29	13	44			1	730	N D	
3	7		1	9	4	4	1				4	23	13	3		16	68	2	5	8		16	14	55			3	1064	S D	
2	6		1	5	3	3					2	17	5			10	22	1	4	5		9	5	20		1	1	399		
4	21	1	6	10	3	14				1	5	12	22	3	1	16	114	5	8	12	1	41	29	187		2		2746	NEBR	
7	13			7		5					1	21	10				57		7			10	10	59				932		
3	32	1	4	16	6	28			23	18	125	79	44	2		22	178	9	12	11		40	32	264			4	4145	KANS	
2	11		3	10	2	8			20	8	84	44				17	76	4	10	5		17	14	81			1	1436		
1	12		2	3		1					3		2				1					1		7				243	DEL	
24	5		1	2																				4				119		
17	158	1	5	27	6	8					7	11	25	1		20		1	5	6		10	4	114				3034	MD	
10	24		4	19	3	6					3	18	15			13		1	5	2		6	2	63		1		1083		
692	11256	4	20	49	13	60	2	1	1	1	24	6	31			13	7	3	8			4	8	67		2		2982	VA	
210	7111	3	12	31	7	24	1				12	3	14					2	7			2	4	28				937		
22	13946		10	25	17	32	4	1	3	7	6	18			12	1	4	2				7	2	30		1		1377	W VA	
9	5320		9	11	8	19					5	4	5			3		1				3	1	11				485		
91	1142	24	29	76	15	108	13	3	1	25	9	44	1	1	19	1	1	2				3	9	106		2		3272	N C	
44	470	19	18	59	10	55	10				15	6	21			14						2	5	60		1		1351		
73	1286	93	38	63	11	109	14	3			19	8	24			1	2					3	3	26		1		1450	S C	
28	194	53	26	38	4	36	14				13	6	10				1	2						3				503		
36	3190	5	355	108	15	106	30	13	3	3	33	15	56			10		1	1			4	3	73		1	1	2191	GA	
13	171	5	268	65	8	41	24	12			20	13	22			3		1				2	1	29				936		
20	3121	1	29	572	8	40	15	4	3	3	39	9	42		1	1	13	1	5	2		16	5	60		1		1858	FLA	
12	162		25	353	4	19	15				26	5	26				6					7	2	33				919		
30	388	2	13	63	365	135	9	7	3	23	20	33	15	1		2	17	3	5	6		7	10	50			2	2321	KY	
14	241	2	12	41	166	55			1	11	8	15					9		3	4			6	19				866		
43	1158	6	55	81	27	798	28	24	6	40	13	76				16	1													

APPENDIX D
continued

State of Baccalaureate Institution	Year of Doctorate	Doctorates Granted by State of Doctoral Institution																									
		MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA		
LA	1920-66	2	69	6	30	129	20	37	56	65	121	59	55	26	22	33	3	1	4	18	4	20	28				
OKLA	1920-66		54	2	39	147	17	41	69	97	177	88	119	42	116	59	2	2	25	49	3	27	15				
TEX	1920-66	1	304	28	121	422	73	127	132	156	396	147	178	71	171	95			17	56	6	80	57				
MONT	1920-66		28	5	12	60	8	51	23	35	68	41	58	50	54	18	2		4	6	1	14	7				
IDA	1920-66	1	12	1	21	41	3	14	13	26	48	34	35	25	34	12	1	1	5	6	1	10	5				
WYO	1920-66		6	1	10	32	6	6	7	8	23	10	20	12	14	9			7	1		2	5				
COLD	1920-66	1	136	4	61	278	38	61	65	91	244	100	80	64	143	53		1	32	25	1	45	28				
N M	1920-66		27	1	9	44	7	17	10	16	36	22	12	11	30	12			3	5		6	7				
ARIZ	1920-66	1	29		11	59	5	15	24	25	51	28	30	10	23	4			3	5	1	7	8				
UTAH	1920-66	1	113	5	22	274	55	61	86	110	177	99	175	87	150	29	1		11	19	2	27	20				
NEV	1920-66		7		3	9	1	1	3	3	11	4	5	1	6	5	1					1	2	1			
WASH	1920-66	1	183	10	75	341	49	64	60	76	219	96	133	91	61	56	1		13	6		52	53				
DREG	1920-66	1	121	13	54	234	26	58	44	81	165	70	121	50	92	20	1	2	8	14	2	32	13				
CAL	1920-66	1	742	32	237	849	183	167	146	186	509	248	225	146	146	92	2		30	37	8	141	110				
ALAS	1920-66		3		2	1		3					1	4		2											
HAWA	1920-66		14	1	5	35		4	10	9	22	9	19	10	13	1					1	4	1				
P R	1920-66	1	11			75	7	31	8	14	24	20	9	8	3	3			1	3	1	2	4				
UNK	1920-66		152	5	20	950	14	35	40	34	227	37	41	13	66	20	3		31	9		133	139				
T US	1920-66	23	99	56	166	501	162	666	234	350	4708	1247	9156	8390	9449	10100	9158	5384	7660	834	231	65	1434	1768	4065	5063	580
	1960-66	23	85	33	566	242	194	1034	1907	4418	3170	5863	5832	4300	2745	1753	2305	1475	133	62	600	861	208	1450	1356		
FOR N REG N OF BACH INST.																											
CANA	1920-66	2	1	1	761	52	199	902	268	190	143	222	700	300	457	332	160	37	1	1	10	20	8	111	63		
C AM	1920-66	1			27	5	7	42	13	9	9	14	29	16	16	9	4	3	1	2	7	1	7	4			
S AM	1920-66				57	8	55	12	16	14	22	55	19	14	10	5	1		2	2	1	20	7				
N EU	1920-66	1			406	35	140	499	109	171	65	80	296	125	115	103	60	28		7	16	4	94	49			
UK	1920-66	1			195	16	90	204	72	74	23	34	139	47	40	39	25	9		1	5	2	41	17			
GER	1920-66				64	8	16	107	18	31	22	16	57	38	34	22	8	9		3	5	1	19	9			
S EU	1920-66	1			138	7	29	203	15	59	27	35	82	36	19	19	17	15		1	9	3	23	42			
FR	1920-66				73	3	15	94	8	26	8	16	26	18	4	11	4	5		1	1	2	9	9			
IT	1920-66				9	1	7	39	2	13	3	8	20	5	4	1	3	4									
GR	1920-66				36	1	4	40	2	14	10	9	31	11	4	4	2	1									
E EU	1920-66				78	1	31	163	24	56	20	28	57	29	13	13	5	5		3	3	2	15	26			
AFRI	1920-66	1			43	8	49	19	8	11	11	33	17	27	11	7				1	2		7	1			
	1960-66	1			18	2	17	7	6	7	9	19	13	15	4	5				1	1		4	1			

Doctorates Granted by State of Doctoral Institution

VIRGINIA	WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	TOTAL U.S.	State of Baccalaureate Institution
85	156 21	1	98 39	667 26	2116	18	3528	593299	3519	16076					123 9	85	22	33			73	85 41					2060 901	LA	
60	240 22	2	721 11	1250 18	55	75	1812	3916	860531	17493				2	63 43	7611	1310	42			2410	2314	17569				2770 1319	OKLA	
247	121 53	4	116	4934	125	11045	158	76	2823	14786	156106	32371551	33	11	116	15371	2927	2622	1410		2917	2310	371151				7220 3172	TEX	
	1210				11	11			12	25	19	953 41		11	43	1712	15	157			5429	3924	10430		1		866 314	MONT	
	113		11		4					36	74	111		11	512	231	117	2016			6828	5429	9939		1		676 282	IDA	
22	1		11		1				21	24	74				3121	1614		54			1362	118	3413				312 130	WYO	
33	2815	16	10	32	169	33	21		17	516	4925	33			2414	656335	1311	2315	249		6229	5134	366161	1			2937 1166	COLO	
33	52	11	85	31					11	411	33	20			22	4226	7310	138	66		95	97	8633		1		592 293	N M	
41	1510		61	41					11	75	314	2214	1		112	232	11398	104			74	1410	17263		1		746 368	ARIZ	
52	298		21	54	32	76	1			93	1410	3018	4	22	640	559	1814	693430			10053	7657	536174				3128 1320	UTAH	
	31		11							22	21	1				42	32	25	65	1	61	85	4319	22			144 64	NEV	
41	2513		11	94	63	62			11	73	811	2911	35	55	5225	525	1613	129			1119447	176123	555198		6		3688 1316	WASH	
31	118 10		112 8	11	95					42	66	2511	33	33	62	5133	21	119	157		209102	460248	493170	11	11	2	2559 1008	OREG	
217	6536		643 29	420 11	33				225	1619	11154	32	55	107	15490	2621	7259	5537		11	306192	232135	95443591	22	126	7	14985 5919	CAL	
					11					11	11	11				22		11	11		11	11	82	32			36 23	ALAS	
	32									11	11	11				44	11		32		84	52	2712		129		223 102	HAWA	
	105		74		21	1				93	11	1610				11			11				84			1	282 113	P R	
2	1112	25	75	518 5						85	532	3210	11	3	2711	22		96			104	51	9653			3	2216 823	UNK	

1605 | 240507 | 176 | 824 | 2219 | 724 | 2645 | 562 | 248 | 381 | 652 | 831 | 5497 | 124 | 45 | 285 | 3144 | 354 | 636 | 1114 | 5 | 2937 | 1727 | 20527 | 18 | 71 | 129 | 217087 | T US
629 | 109854 | 123 | 614 | 1414 | 342 | 1104 | 432 | 215 | 294 | 870 | 1151 | 2676 | 108 | 45 | 177 | 1633 | 245 | 533 | 674 | 5 | 1382 | 987 | 8293 | 15 | 57 | 22 | 80978

																									FOR N REG N OF BACH INST.			
30 11	2	67 31	1	5	15 8	2	13 8	1	1	9	13 7	37 19	2	4	22 14	2	4	25 15	149 58	103 58	607 214	4	3	6062 1955	CANA			
2 2		8 6			7 7		1 1			13 10	1 1	8 4			1	1		1		1	30 22		1	311 200	C AM			
5 5		9 7		2	6 6	1 1	2 1			14 13	1 1	7 5			1 1				9 7	3 2	65 44	1 1		456 282	S AM			
8 4		37 28	1	8 7	20 16	6 3	7 6	4	2	11 8	8 6	40 29	1	1	22 10	6	4	10 8	55 30	27 17	403 215	2 1	1	3087 1459	N EU			
4 3		20 15	1	4 4	9 8	3 1	6 6	2 2		2 1	4 3	15 13	1 1		10 4	3 1	1 1	2 1	25 14	15 11	188 120	1	1	1391 752	UK			
3 1		7 4		2 2	5 5	3 2		2 2	1	4 1	1 1	12 8			1 1	3 2	2 2	2 4	9 6	1 1	67 30			616 280	GER			
2		5 3		2 2	7 6		3 3	1	1	16 12	1 1	12 5	1 1		16 13	2 2			6 3	7 6	146 92			1008 493	S EU			
1		2 1			1 1			1		4 3		6 2	1 1		9 7				1 1	1 1	64 36			424 165	FR			
1					1					2 2	1 1	1			3 3	2 2			3 1	2 2	27 17			191 95	IT			
		3 2		2 2	3 3		3 3	1		5 3		4 3			2 1				2 2	4 3	44 32			253 161	GR			
3 1		3 2			4 3		3 1			2 2		4 2			12 6		1 1	2 1	3 2	4 3	51 24			664 300	E EU			
4 2		9 5			2 2					1 1	1 1				5 5		3 2		1 1	3 1	69 51	1		355 200	AFRI			

APPENDIX D
continued

State of Baccalaureate Institution	Year of Doctorate	Doctorates Granted by State of Doctoral Institution																							
		MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA
N E	1920-66	1	159	17	28	353	54	104	124	112	213	177	91	83	61	29			2	11	33	5	79	62	
	1960-66	1	80	15	18	182	27	69	75	111	111	111	48	43	27	22			2	10	20	5	31	38	
EGY	1920-66		53	2	6	111	22	40	60	45	89	69	53	47	35	19				3	21	4	40	21	
	1960-66		22	2	1	55	13	24	34	30	42	41	27	23	13	14				3	12	4	13	17	
ISR	1920-66		49	5	12	114	9	29	23	7	41	21	6	6	3	1				1	2	1	13	1	
	1960-66		37	5	8	67	6	20	18	6	27	16	3	5	3	1				1	2	1	9	1	
TRK	1920-66		28	3	4	39	6	8	8	15	23	20	3	6	7	3				3	1		7	4	
	1960-66		9	3	3	19	4	5	4	5	12	12	3	4	2	2				3	1			2	
OTH	1920-66	1	29	7	6	89	17	27	33	45	60	67	29	24	16	6			2	4	9		19	36	
	1960-66	1	12	5	6	41	4	20	19	30	36	42	15	11	9	6			2	3	5		9	18	
INDI	1920-66	5	198	14	58	387	54	199	182	174	356	210	237	146	93	89			4	17	73	1	69	48	
	1960-66	3	115	14	30	197	34	139	132	119	247	133	138	88	58	65			3	12	46		35	33	
PAKI	1920-66		26	1	3	44	2	23	27	42	31	18	15	17	7	8				3	12		5	8	
	1960-66		11	1	2	18	1	13	20	37	14	10	8	6	4	5				1	9			6	
CHIN	1920-66	5	236	28	64	432	54	177	110	88	383	205	129	122	122	55			3	10	29	3	62	24	
	1960-66	4	55	18	24	146	29	74	47	39	126	62	50	48	41	22			1	4	23		27	4	
JAP	1920-66		52	5	29	99	12	44	26	26	54	30	22	15	12	16				2	5	3	24	11	
	1960-66		37	4	16	66	8	37	14	16	31	21	10	7	9	9				2	4	3	12	7	
KOR	1920-66	2	18	10	6	30	13	25	20	14	26	23	20	28	9	9				3	3	1	6	9	
	1960-66	2	16	8	4	22	11	20	18	12	21	20	13	23	9	7				2	3	1	5	6	
OTH	1920-66	4	33	1	8	59	3	21	14	42	42	18	29	3	2	12			1		3	1	10	8	
	1960-66	4	16	1	2	38	2	15	9	33	24	10	21	2	2	4					2	1	5	6	
AUS	1920-66		96	4	28	94	17	21	14	18	53	17	30	20	34	8				3	1		12	6	
	1960-66		51	3	16	45	9	16	3	13	32	15	12	8	22	2				1			7	2	
PHIL	1920-66		30	1	23	114	7	15	18	42	51	73	23	13	32	9				5	10		22	25	
	1960-66		14	1	10	48	6	12	12	21	27	37	13	5	13	6				3	5		9	16	
T FR	1920-66	4	18	3	2358	181	669	3525	676	1138	824	970	2461	1313	1257	949	640	328	11	5	80	228	33	566	394
	1960-66	4	14	1	915	109	274	1446	304	613	480	578	1116	669	508	376	281	185	18	4	44	139	22	230	193
TOT	1920-66	27	117	59	19008	1347	7331	37875	5384	13611	9989	3602	21910	1413	10415	6333	8300	4162	242	69	1514	996	4395	6294	974
	1960-66	27	99	34	6577	551	2219	11793	2211	5031	3650	4441	6948	4969	3253	2129	2586	1660	141	66	644	1000	2301	6801	1549

NOTE The state of the doctoral institution was unknown for 23 of the doctorate recipients in this appendix. Appendix E reports only 3 unknown because an edit of the data located the institutions of 20 doctorates after Appendix D had been printed.

APPENDIX D Supplement

Migration, Region by Region, From Baccalaureate to Doctorate, 1920 - 1966 and 1960 - 1966

Region of Baccalaureate	Year of Doctorate	Doctorates Granted by Region of Doctoral Institution										
		NEW ENGLAND	MID-ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNKNOWN	TOTAL
N E	1920-66	10298	5111	3229	722	1325	102	207	172	1417	7	22590
	1960-66	3399	1771	1251	241	525	53	103	111	759		8235
M A	1920-66	4998	27941	6425	1406	3285	222	406	401	2088	11	47183
	1960-66	1911	9475	2594	553	1352	117	214	249	1018	4	17487
ENC	1920-66	3239	5890	28938	3279	2195	341	604	766	2845	67	48164
	1960-66	1070	1655	10005	1136	852	156	316	446	1286	8	16930
WNC	1920-66	1377	2694	5684	10758	1155	236	679	1065	1901	20	25569
	1960-66	362	600	1857	3839	415	97	396	567	720	6	8859
S A	1920-66	1370	3436	3023	680	8338	663	495	158	643	3	18809
	1960-66	434	1029	1055	206	3203	339	273	99	307	1	6946
ESC	1920-66	453	1058	1946	494	1226	515	93	58	267	5	8119
	1960-66	138	263	672	163	524	1063	282	58	122		3335
WSC	1920-66	707	1129	2148	987	776	429	5874	419	793	1	13263
	1960-66	219	313	793	388	353	201	3093	244	340	1	5945
MTN	1920-66	526	1146	1953	994	373	50	269	2062	2026	2	9401
	1960-66	171	315	660	313	145	28	162	1279	863		3937
PAC	1920-66	1495	2014	2453	895	628	48	241	527	13181	9	21491
	1960-66	453	632	943	323	265	28	121	346	5257		8368
PR	1920-66	12	113	75	18	24	3	26	2	8	1	282
	1960-66	2	38	31	8	13	1	14	1	4		113
UNK	1920-66	177	999	379	142	295	23	45	42	111	3	2216
	1960-66	31	581	49	19	38	10	17	20	58		823
T US	1920-66	24652	51531	56253	20375	19620	4179	9361	5707	25280	129	217087
	1960-66	8190	16672	19910	7189	7757	2093	4991	3420	10734	22	80978
T FR	1920-66	3233	5339	6825	2241	1772	158	746	470	3353	7	24144
	1960-66	1317	2363	3351	1037	987	112	524	333	1860	1	11885
TOT	1920-66	27885	56870	63078	22616	21392	4337	10107	6177	28633	136	241231
	1960-66	9507	19035	23261	8226	8744	2205	5515	3753	12594	23	92863

Doctorates Granted by State of Doctoral Institution

VIRGINIA	WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	TOTAL U.S.	State of Baccalaureate Institution
14 10	3 3 47 34	2	11 9	24 15	5 2	13 3	2 3	3 1	1 2	48 35	27 23	74 46			2 1	33 22	3 3	15 14	34 26		26 17	26 17	295 188					2507 1492	N E
4 3	2 2 23 14		6 6	13 6	3 6	3 2	1 1	2 1	1 1	29 21	10 9	41 30				15 10	3 3	11 10	18 17		8 4	16 7	140 87					1089 623	EGY
	1 7 6										1 1	3 2				2 2		1 1			3 2		61 53					416 297	ISR
2 1				4 3	1						3 3	3 3			1 1	1 1					1 1		18 9					229 120	TRK
8 6	1 1 16 13	2	5 3	7 6	2 2	10 7	1 1	1 1		19 14	13 10	27 11			1 1	15 9		3 3	16 9		14 10	10 10	76 39					773 452	OTH
15 11	6 3 79 46		15 13	53 45	5 5	17 15	4 3	6 3	4 2	56 39	29 26	73 53	5 5	5 5	3 3	39 27	8 7	11 8	30 26		63 39	51 38	299 207	2 2	8 7			3501 2279	INOI
1 1	12 9			8 5		2 2	1 1			11 8	5 3	33 26			1 1	7 5	2 2		5 4		15 13	4 4	29 22		4 4			432 274	PAKI
23 17	12 9 22 16	3	14 7	22 18	7 5	13 8	1 1			19 7	24 20	63 48	2 2	1 1	2 2	31 17			19 15		58 13	28 9	277 128		1 1			2984 1191	CHIN
1 1	6 4		1 1	1 1	1 1	3 2	1 1	1 1	1 1	4 1	1 1	11 9				6 4			3 1		12 8	6 5	78 60	2 1	2 2			628 418	JAP
4 3	11 9		3 3	13 12	3 3	4 3	1 1			6 3	4 4	7 6				2 1	1 1	1 1	8 5		10 3	3 3	20 17			1		377 308	KOR
5 5	8 4		5 5	6 6	8 6	2 2	1 1		1 1	6 2	2 2	12 10			1 1	14 11			6 4		4 4	15 14	40 30		3 3			453 307	OTH
1 1	25 16		1 1	3 1	1 1	2 1				4 2		3 2	1 1			4 3			5 4		9 7	11 6	125 74		6 5			677 381	AUS
	14		1 1	10 9	2 1	2 1	1 1			7 6	2 2	6 3				8 3		3 2			6 5	2 1	60 36		5 5			642 346	PHIL
118 74	23362 232	7	68 55	201 159	42 28	87 63	18 15	11 6	10 7	227 152	119 98	390 267	12 12	6 6	14 14	223 142	25 35	42 35	148 110		425 216	294 184	2594 1424	4 3	36 33	7 1	24144 11885	T FR	
1723 703	2631869 1242086	183	8922420 6691573	7662732 3701167	580 447	259 221	391 301	1879 1022	1950 1249	5887 2943	136 120	51 51	299 184	3367 1775	379 266	678 568	1262 784	5 5	3362 1598	2021 1171	23121 9717	22 18	107 90	136 23	241231 92863			TOT	

APPENDIX E Supplement

Migration, Region by Region, From Doctorate to First Postdoctoral Job, 1960 - 1966

Region of Doctoral Institution	Doctorates Granted by Region of First Postdoctoral Job										
	NEW ENGLAND	MID-ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNKNOWN	FOREIGN
N E	2972	1184	670	196	668	90	148	141	709	1829	900
M A	1064	8481	1244	336	1346	221	253	254	925	3595	1316
ENC	879	2221	7948	1132	1654	539	705	694	1739	3899	1863
WNC	198	485	1124	2463	481	193	386	353	569	1382	592
S A	288	758	596	229	3610	438	349	131	343	1462	541
ESC	30	74	137	76	415	848	188	37	43	291	66
WSC	85	142	272	314	348	238	2381	193	253	1040	251
MTN	56	148	304	351	163	42	180	1184	418	731	180
PAC	449	780	760	299	457	79	213	592	5631	2019	1316
UNK	1		1							1	3
TOTAL	6022	14273	13056	5396	9142	2688	4803	3579	10630	16249	7025

APPENDIX E

Migration, State by State, from Doctorate to First Postdoctoral Job, FY 1960 - 1966

State of Doctoral Institution	Doctorates Granted by State of First Postdoctoral Job																												
	MAINE	NEW HAMPSHIRE	VERMONT	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	NEW YORK	NEW JERSEY	PENNSYLVANIA	OHIO	INDIANA	ILLINOIS	MICHIGAN	WISCONSIN	MINNESOTA	IOWA	MISSOURI	NORTH DAKOTA	SOUTH DAKOTA	NEBRASKA	KANSAS	DELAWARE	MARYLAND	DISTRICT OF COLUMBIA	VIRGINIA				
ME	6			3			3	2	3		1															1			
N H	3	8	1	8	1	2	5	3	10	1	1	2	3		1						1	7			2				
VT		2	5	3	1	2	1	2	2	1			1	1			1				1					1			
MASS	50	51	17	1849	51	133	387	174	168	93	67	148	87	52	42	25	39	2	4	7	23	36	87	157	47				
R I	6	2	4	35	60	19	28	21	26	10	1	10	16	3	2		1								2	14	12	3	
CONN	9	14	13	164	28	422	188	77	84	57	25	42	32	16	21	9	11		2	2	4	10	24	60	25				
NY	40	37	40	326	41	211	4152	757	354	184	84	225	128	85	58	29	56	6	10	19	31	60	142	155	100				
NJ	6	13	8	86	14	39	188	558	142	37	19	41	30	23	17	10	12	2	1	3	3	14	38	45	25				
PA	9	11	9	113	17	44	311	271	1748	143	50	77	83	35	21	14	19	4	5	4	17	77	113	84	51				
OHIO	6	4	3	49	5	39	154	69	126	1156	57	97	105	41	15	20	18	7	2	11	12	44	43	37	28				
IND	14	10	3	96	8	46	197	101	128	195	762	222	125	93	47	54	62	10	15	17	50	27	60	52	46				
ILL	7	13	3	159	18	58	381	145	168	181	193	1606	193	150	94	57	103	15	9	25	57	46	84	92	48				
MICH	7	18	6	110	12	63	236	70	133	200	95	169	1301	87	58	50	39	10	4	13	42	22	63	57	28				
WISC	10	9	4	71	12	16	145	73	95	97	61	128	96	538	69	47	36	7	11	14	32	17	46	43	23				
MINN	4	5	3	29	2	17	80	27	36	52	31	74	55	65	497	26	29	16	17	13	16	15	34	35	6				
IOWA	7	5	1	33	3	26	84	36	48	63	49	155	64	72	88	422	54	11	21	31	41	17	32	20	17				
MO	3		2	23	3	7	53	6	29	36	23	95	37	33	11	31	441	5	5	11	36	10	17	13	7				
N D	1						3		2	1	4	4	3	9	24	2	2	25	2	1	3		1		1				
S D										2	3	1	3	1		8	2	1	14	5	2								
NEBR				4		3	15	3	5	17	11	13	11	17	14	34	17	3	6	184	21	6	5	4	1				
KANS	3	2	1	9	1	1	24	18	16	36	23	26	19	17	12	7	55	3	4	13	176	6	12	8	8				
DEL			1	10	1	2	10	17	24	2	1	2	3		1		2				1	39	9	2	3				
MD	5	5	4	37	9	18	77	58	65	22	25	27	28	24	13	5	12	1		1	3	11	464	117	36				
D C	3	7	3	30	5	10	70	20	55	37	15	26	15	26	16	9	12	1	3	1	8	2	189	372	43				
VA	1	1	2	12	1	5	24	18	25	22	10	11	8	5	3	2	2	2	1		4	12	19	18	158				
W VA			1	3			3	3	10	4	2			1			1			1	2	2	3	1	5				
N C	4	2	3	38	5	8	77	20	47	48	18	37	25	14	11	13	24	1	3	5	9	13	36	23	98				
S C				4	1			2	3	2	2	3	1	1		1				1	1		1	1	5				
GA	1			8	1	1	21	7	3	3	7	9	5	5	1	5	2			2	1	5	7	5	14				
FLA		5	2	19	2	8	47	25	27	32	15	27	17	9	2	3	25	1		1	10	9	17	18	22				
KY				4	1		9	3	8	17	6	11	3	4	2	2	6	1	1	1	3	2	3	8	10				
TENN	1	1		11	1	4	16	13	15	20	18	25	12	6	1	5	21		1	5	14	6	20	15	38				
ALA	1		1	2	1	1	1	3	2	1	3	2	3	1	1	2	5		1		1	2	4	7					
MISS					1		3	1			1		1	3	1		2	1							3				
ARK				4		1	4			4	2	1			2	3	21	1		4	21		1		1				
LA			2	10		3	9	2	16	10	8	19	7	6	6	2	10		1	2	5	2	12	7	20				
OKLA				5	3	2	7	7	6	11	12	29	7	14	7	6	37	8	8	10	53	3	4	10	11				
TEX	2	1		34	5	13	39	18	34	35	26	40	19	22	8	11	40	4	6	8	30	17	22	21	11				
MONT							4			1		2	3	1	3	3	2		4	1			2	2	2				
IDA							1			1		2	1	1	1		1			1	1	1							
WYO			1				5	1	2			5	2	3	4	3	4	5	9	2	6		1						
COLO	3	2	1	17	1	7	32	12	25	27	32	65	24	41	41	33	27	12	26	33	60	8	19	16	8				
N M			2	2			7	1	4	2	1	6	2	5	2	2	3		1	3	7	2	6		2				
ARIZ			1	5	1	1	11	7	7	6	9	12	3	7	5	2	7	1	3	4	7		5	8	4				
UTAH	1			9			2	14	7	8	9	6	9	7	3	2	4	5	2	7	5	3	8	3	2				
NEV																													
WASH	3	4	6	28	5	8	41	27	22	25	16	21	27	19	14	5	6	3	3	4	10	8	19	13	5				
OREG	1	1	1	13	1	10	32	11	13	8	13	10	20	15	6	6	7	1	4	6	5	1	6	9	6				
CAL	6	17	4	239	12	88	340	158	133	87	84	213	110	91	65	37	50	2	6	15	41	35	68	88	34				
ALAS															1														
HAWA			2				2	1				1				1				1			1	2					
UNKNOWN						1								1															
TOTAL U.S.	223	251	157	3716	334	1341	7541	2855	3877	2996	1891	3752	2745	1672	1307	1008	330	177	215	486	873	588	1770	1637	1015				

Doctorates Granted by State of First Postdoctoral Job

WEST VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA	KENTUCKY	TENNESSEE	ALABAMA	MISSISSIPPI	ARKANSAS	LOUISIANA	OKLAHOMA	TEXAS	MONTANA	IDAHO	WYOMING	COLORADO	NEW MEXICO	ARIZONA	UTAH	NEVADA	WASHINGTON	OREGON	CALIFORNIA	ALASKA	HAWAII	UNKNOWN	FOREIGN	TOTAL	State of Doctoral Institution	
2																														
1																														
4	33	10	27	22	9	31	9	6		19	13	50	2	3	3	42	16	11	20	1	43	14	437	3	12	1325	616	6577	MASS	
3	4		3	3	1	3	1			3		5				2	4	2	1		4	4	28			149	56	551	R I	
2	24	4	17	18	5	10	8	5		3	12	38	3		1	12	10	2	3	1	14	15	122		3	332	216	2219	CONN	
25	83	13	50	81	33	49	36	17	6	19	17	82	12	10	1	54	30	26	20	2	62	39	451	5	17	2389	834	11793	NY	
4	24	3	8	13	9	14	6	2		7	5	23	1	1	1	12	12	2	3	1	6	5	117	1	3	330	229	2211	NJ	
36	42	10	19	31	5	30	15	5	1	16	18	59	1	3	1	23	16	16	4	2	27	13	172	3	4	876	253	5031	PA	
28	35	11	29	40	40	32	19	4	3	15	13	47	6	1		36	21	20	5	7	28	7	142		9	683	221	3650	OHIO	
20	53	14	37	39	60	41	35	14	13	32	39	96	8	10	2	40	23	32	21	3	39	26	254	1	8	709	333	4442	IND	
21	72	12	37	63	55	66	19	17	17	35	55	119	6	11	8	57	44	33	27	5	79	35	451	4	18	1074	614	6959	ILL	
16	41	9	28	41	13	40	17	8	7	29	23	59	4	10	6	55	22	30	21	7	33	33	277	4	11	864	368	4969	MICH	
8	38	14	14	28	14	27	11	7	7	23	8	65	14	9	2	32	22	15	14	5	62	38	168	3	9	569	327	3253	WISC	
6	16	2	10	19	12	10	3	2	2	9	13	43	9	4	1	16	14	7	10	2	38	8	120	2	7	362	198	2129	MINN	
9	23	8	11	26	18	27	14	9	6	21	17	70	8	10	18	41	18	27	9	4	38	15	136	3	8	409	183	2586	IOWA	
4	10	4	10	19	24	10	9	9	9	16	18	49	5	1	2	15	5	20	6	1	17	8	69	1	4	279	99	1660	MO	
					2	1				1	1	2	3		1	1		1	1		3		5			27	4	141	N D	
1				1	2			2		1								1	1	1		1	1		1	6	4	66	S D	
1	3		3	1	2	5	3	4	2	1	4	9	2	2		18	4	6	1	3	11	6	18	1	1	106	33	644	NEBR	
	5	3	3	8	5	9	8	4	10	17	23	40	5	6	3	17	12	7	3	1	8	3	35	1		193	71	1000	KANS	
2	1				2	1				2	4	1		1		2	1				1		3			67	12	230	DEL	
6	19	10	13	20	7	14	9			10	2	22	5	2	1	3	9	3	2	1	12	5	70		6	231	131	1680	MD	
	7	6	7	9	9	5	4	2	4	10	2	15	4			7	3	1	2	1	4	1	52		3	308	105	1549	D C	
7	27	18	13	19	8	22	13	4	2	15	3	15	2			1	4	1		1	2	1	17			105	37	703	VA	
39	2	1	3	2	1					1				1												23	6	124	W VA	
8	483	73	62	45	15	54	24	17	3	43	4	47	3	2	1	13	6	16	3		11	11	54	1	5	338	162	2086	N C	
	11	38	6	4	2	6	2	2			1	7								1			1			18	2	130	S C	
4	27	27	212	22	9	41	19	15	3	12	2	29				1	2				4	3	13			79	32	669	GA	
3	62	31	82	400	18	38	46	27	7	30	7	45	2		1	7	8	6		1	6	1	54	1	1	293	54	1574	FLA	
7	10	6	4	5	116	20	5	1		1	2	8			1	5	4	2			3		2	1		52	10	370	KY	
12	62	18	37	35	33	327	34	14	12	19	13	41		1		6	5	3	4		2	1	30	1	1	141	46	1167	TENN	
1	10	13	38	13	7	21	144	28	6	25	4	14				3			1				2			66	6	447	ALA	
1	8	2	9	5	4	15	7	72	5	25		13						1		1						32	4	221	MISS	
1	4	3	2		3	9	3	9	66	21	11	38		1	2		5	3			1		6			40	3	301	ARK	
	10	14	19	14	11	27	15	27	14	287	11	69	1	1		8	3	4			7	1	30	1	3	208	80	1024	LA	
4	7	5	18	12	8	11	13	12	29	31	352	125	3		1	17	20	7	5	2	5	4	27		2	231	38	1249	OKLA	
7	36	12	15	28	11	36	24	19	27	32	70	1148	3	6	3	28	42	15	9	4	20	14	122	4	6	561	130	2943	TEX	
	1		2							4	2	30	4					2	3			9	1	11	1		13	7	120	MONT
					1					1	1	7				1		1			8	2	2				15	1	51	IDA
1		2			1					1	3	7	4	5	45	15	1	1	1	2	5	3	6		1	22	6	185	WYO	
4	16		5	8	9	9	5	3	6	9	20	66	11	11	19	380	34	23	19	7	37	28	114	3	8	263	86	1775	COLO	
	1	1	1	1	2			1		3	18	2	2	1		9	93	1	1	2	3	2	13		2	40	8	269	N M	
	1	1	1	4	2	2		1	5	2	12	3	5	3	13	19	116	6	13		6	8	53	1	2	154	19	568	ARIZ	
	4		2	4	1	3	2			10	7	5	15	4	19	9	6	204	4	17	4	60		8	224	52	784	UTAH		
										1				1						1							1		5	NEV
5	8	2	5	9	3	8	2		1	5	5	23	18	34	3	30	15	15	12	8	360	69	205	9	5	234	163	1598	WASH	
	7		2	8	4	2	3		2	4	3	12	18	12	2	20	9	12	27	3	84	254	146	1	6	187	137	1171	OREG	
4	43	8	14	41	11	30	11	4	2	23	20	111	16	24	7	89	55	72	71	17	152	126	4121	8	48	1576	991	9718	CAL	
															2								10			3		18	ALAS	
3		1				1				1										1	1	3		22	19	25	90	HAWA		
																											1		3	UNK
302	1381	406	881	1162	599	1112	608	369	276	930	840	2757	219	214	146	1155	620	570	540	115	1273	810	8229	74	244	16249	7025	92863	TOT	

APPENDIX F

Field Changes From Baccalaureate to Doctorate and From Master's Degree to Doctorate, FY 1958 - 1966

Field of Baccalaureate	Doctorates by Field																
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOL	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	
PHYSICAL SCIENCES, TOTAL	33399	3626	6215	9990	2331	11237	2886	138	265	2069	264	16	134	887	350	36	
MATHEMATICS	3470	2851	289	70	70	190	120	3	5	81	9	1	21	295	121	7	
PHYSICS AND ASTRONOMY	5867	307	4952	50	140	418	230	6	15	183	9	4	13	81	42	5	
CHEMISTRY	9889	40	119	9387	88	255	2354	93	225	1731	222	5	78	143	87	7	
EARTH SCIENCES	1974	9	12	8	1910	35	33	8	1	1	8	3	12	65	8	11	
ENGINEERING	12199	419	843	475	123	10339	149	28	19	73	16	3	10	303	92	6	
BIOLOGICAL SCIENCES, TOTAL	730	40	16	534	88	52	14074	3668	1543	2382	3682	317	2482	821	256	24	
AGRICULTURE AND FORESTRY	185	12	1	116	25	31	4650	3117	136	463	629	67	238	457	10		
HEALTH SCIENCES	331	8	7	311	1	4	1714	52	1045	309	256		52	86	55	6	
BIOCHEM, BIOPHYS, PHYSIOLOGY, BIOSTAT	36	3	2	24	3	4	506	11	40	381	50	2	22	20	15		
ANAT, CYTOL, ENTOMOL, GENETIC, MICROBIO, EMBRY	16	1		13	1	1	1079	42	29	72	901	3	32	11	6	2	
ECOLOGY, HYDROBIOLOGY	1				1		38	2		4	1	21	10	3			
BOTANY, ZOOLOGY BIOLOGY GENERAL	161	16	6	70	57	12	6086	444	293	1152	1845	224	2128	244	170	16	
SOCIAL SCIENCES, TOTAL	120	62	8	16	17	17	167	26	28	55	32	2	24	11640	5608	439	
PSYCHOLOGY	34	17	3	8	2	4	81	3	10	37	19		12	5357	5135	23	
ANTHROPOLOGY AND ARCHEOLOGY	3	2			1		8			1	5		2	339	10	308	
SOCIOLOGY	7	3	1	1	1	1	17	2	6	3	2		4	1151	195	39	
ECONOMICS AND ECONOMETRICS	52	32	3	5	4	8	36	17	5	11	3			2365	88	18	
POLITICAL SCIENCE & INTERNATIONAL RELATION	13	5	1	1	2	4	2		1		1			1637	61	19	
ARTS AND HUMANITIES, TOTAL	339	79	79	91	49	41	279	27	41	87	59	4	61	2308	917	172	
HISTORY	21	4	2	7	6	2	47	6	8	9	11		13	681	136	48	
ENGLISH AND AMERICAN LANGUAGE AND LITERATURE	37	10	8	6	8	5	58	3	10	18	11	1	15	522	270	38	
MODERN FOREIGN LANGUAGE AND LITERATURE	26	7	2	6	7	4	25	2	4	4	11		4	146	62	9	
CLASSIC LANGUAGES AND LITERATURE	17	3	5	6	2	1	11	1	1	2	3		4	77	21	19	
PHILOSOPHY	79	23	23	23	8	2	38	4	1	16	8	1	8	440	210	27	
SPEECH AND DRAMATIC ARTS	2	1				1	5	1	2	1	1			50	34		
FINE ARTS AND MUSIC	22	8	5	6	1	2	11	1	2	4	2		2	108	65	11	
PROFESSIONAL FIELDS, TOTAL	367	49	66	96	38	118	348	37	50	104	77	12	68	1195	284	25	
BUSINESS ADMINISTRATION	48	21	2	2	7	16	23	5	8	5	3		2	658	112	4	
RELIGION AND THEOLOGY	9	2	4	3			13	1		1	5	1	5	94	49	6	
EDUCATION	269	99	34	99	14	23	556	178	38	98	95	21	126	731	385	14	
UNKNOWN FIELDS	726	107	208	214	40	157	369	56	41	97	62	3	110	567	175	30	
ALL FIELDS, TOTAL	35950	4062	6626	11040	2577	11645	18679	4130	2006	4892	4271	375	3005	18149	7975	740	

Doctorates by Field

	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS	Field of Baccalaureate
48	289	86	326	69	60	58	7	91	24	13	364	247	51	1377	39189		PHYSICAL SCIENCES, TOTAL
21	119	12	101	15	12	20	2	38	10	3	56	26	21	666	4708		MATHEMATICS
5	21	4	51	12	10	10		16	3		39	19	6	122	6390		PHYSICS AND ASTRONOMY
8	21	11	79	7	17	19	4	20	4	6	44	14	9	368	12877		CHEMISTRY
2	13	3	16	7	4			3	2		10	7		32	2130		EARTH SCIENCES
12	115	56	79	28	17	9	1	14	5	4	215	181	15	139	13084		ENGINEERING
71	416	22	104	14	30	22	2	14	14	6	68	25	12	993	16790		BIOLOGICAL SCIENCES, TOTAL
30	397	7	6	1	1	1	1	1	1		29	13	1	278	5605		AGRICULTURE AND FORESTRY
17	3	2	28	3	8	4	1	4	6	2	13	7	2	149	2321		HEALTH SCIENCES
2	1	1	4		1	3					2			20	588		BIOCHEM, BIOPHY, PHYSIOLOGY, BIOSTAT
	2	1	4		2	1		1			2		1	15	1127		ANAT, CYTOL, ENTOMOL, GENETIC, MICROBIO, EMBRYO
2															42		ECOLOG, HYDROBIOLOGY BOTANY, ZOOLOGY
22	11	11	62	10	18	13		8	7	4	22	5	8	531	7106		BIOLOGY GENERAL
1120	2241	1629	786	374	101	84	13	66	110	31	551	313	166	2427	15691		SOCIAL SCIENCES, TOTAL
113	17	23	140	20	30	12	3	24	46	4	92	32	52	817	6521		PSYCHOLOGY ANTHROPOLOGY AND ARCHEOLOGY
10	2	4	27	2		13	2		1	9	2		2	15	394		
756	15	37	52	18	9	7	1	4	10	1	63	14	46	282	1572		SOCIOLOGY ECONOMICS AND ECONOMETRICS
74	2028	114	100	37	30	7		10	12	3	255	220	16	298	3106		POLITICAL SCIENCE & INTERNATIONAL RELATION
47	123	1350	257	155	21	28	3	19	21	9	91	31	26	292	2292		
293	235	513	12521	3001	3684	2099	438	928	1190	1110	1109	109	789	4188	20744		ARTS AND HUMANITIES, TOTAL
73	95	269	2879	2582	91	68	22	49	24	32	264	35	175	1293	5185		HISTORY ENGLISH AND AMERICAN LANGUAGE AND LITERATURE
60	26	75	4200	150	3257	335	24	78	261	64	296	27	184	1291	6404		MODERN FOREIGN LANGUAGE AND LITERATURE
10	14	34	1705	48	75	1497	26	19	14	22	46	3	20	230	2178		CLASSIC LANGUAGES AND LITERATURE
8	11	14	486	31	40	69	302	26	9	7	64	1	57	106	761		
86	41	58	1088	123	125	52	48	711	15	7	332	15	299	274	2251		PHILOSOPHY
5		9	857	5	14	6	1	3	811	14	21	4	14	189	1124		SPEECH AND DRAMATIC ARTS
11	3	11	1063	14	21	24	5	11	40	945	20	5	8	633	1857		FINE ARTS AND MUSIC
99	538	195	560	173	123	94	25	54	56	23	1774	1064	299	1200	5444		PROFESSIONAL FIELDS, TOTAL
31	453	43	124	43	29	17		15	12	6	1064	1021	11	481	2398		BUSINESS ADMINISTRATION
30	1	4	173	53	15	29	21	27	20	5	272	1	267	183	744		RELIGION AND THEOLOGY
81	133	54	657	160	127	74	10	16	151	116	143	56	36	7977	10333		EDUCATION
48	148	129	509	130	126	127	19	67	15	21	198	55	75	285	2654		UNKNOWN FIELDS
1760	4000	2628	15463	3921	4251	2558	514	1336	1560	1320	4207	1869	1428	18397	110045		ALL FIELDS, TOTAL

APPENDIX F
continued

Field of Master's Degree	Doctorates by Field															
	PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH SCIENCES	ENGINEERING	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS, PHYSIOL, BIOSTATIST	ANAT, CYTOL, ENTOMOL, GENET, MICROBIOL, EMBRYOI	ECOLOGY, HYDROBIOLOGY	BOT, ZOOL, GEN BIOL	SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL
PHYSICAL SCIENCES, TOTAL	24052	3029	4190	4817	1958	10658	695	60	64	512	29	4	26	168	53	3
MATHEMATICS	3050	2828	75	7	10	130	43	1	3	38		1		74	20	1
PHYSICS AND ASTRONOMY	4171	68	3853	24	47	179	85	3	4	68	1		9	9	6	1
CHEMISTRY	4779	4	18	4679	22	56	505	41	49	381	25	1	8	12	8	
EARTH SCIENCES	1882	3	9	4	1843	23	17	6	1	1	2	2	5	15	1	1
ENGINEERING	10170	126	235	103	36	9570	45	9	7	24	1		4	58	18	
BIOLOGICAL SCIENCES, TOTAL	274	16	7	199	28	24	13539	3553	1508	2610	3307	300	2261	167	31	6
AGRICULTURE AND FORESTRY	78	7	1	51	8	11	4034	3285	51	277	228	46	147	101	1	
HEALTH SCIENCES	87	1	1	81		4	1704	12	1255	267	147	1	22	46	23	4
BIOCHEM, BIOPHYS, PHYSIOLOGY, BIOSTAT	65	4	4	53	3	1	1814	31	84	1565	85	4	45	5	3	1
ANAT, CYTOL, ENTOMOL, GENETIC, MICROBIO, EMBRY	18	4		9	1	4	2533	54	53	105	2254	14	53	2	1	
ECOLOGY, HYDROBIOLOGY	2					2	162	8	2	13	7	107	25	2		
BOTANY, ZOOLOGY																
BIOLOGY GENERAL	24		1	5	16	2	3292	163	63	383	586	124	1969	11	3	1
SOCIAL SCIENCES, TOTAL	46	21	1	4	8	12	46	9	10	13	9	1	4	12554	5465	425
PSYCHOLOGY	12	7		3		2	11		2	7	2			5373	5305	8
ANTHROPOLOGY AND ARCHEOLOGY	1				1		7				5	2	393	5	375	
SOCIOLOGY	4	1				3	8		5		1	2	1274	68	16	
ECONOMICS AND ECONOMETRICS	20	12		1	2	5	13	8		4	1		2593	13	3	
POLITICAL SCIENCE & INTERNATIONAL RELATION	2	1	1				2	1		1			1874	18	6	
ARTS AND HUMANITIES, TOTAL	73	21	19	18	5	10	14	1	1	6	2		4	423	139	33
HISTORY	4		1	1	1	1								153	15	7
ENGLISH AND AMERICAN LANGUAGE AND LITERATURE	4	1		2	1		3		1	1			1	68	29	6
MODERN FOREIGN LANGUAGE AND LITERATURE	4	2		1		1	1						1	32	8	6
CLASSIC LANGUAGES AND LITERATURE	1	1												19	8	6
PHILOSOPHY	40	12	16	8	2	2	8			4	2		2	97	40	4
SPEECH AND DRAMATIC ARTS	1					1	1	1						24	21	
FINE ARTS AND MUSIC	8	5	1		1	1	1			1				24	15	4
PROFESSIONAL FIELDS, TOTAL	132	21	7	52	6	46	66	5	16	24	6	2	13	591	81	4
BUSINESS ADMINISTRATION	53	13	1	2	2	25	15	2	9	2	1		1	407	27	
RELIGION AND THEOLOGY	8		1	2	2	5	6	1	1	1	1		2	68	35	2
EDUCATION	105	38	11	41	7	8	235	44	18	54	31	12	76	664	466	12
NO MASTER-UNK FLD	11268	916	2391	5909	565	1487	4084	458	389	1673	887	56	621	3582	1740	257
ALL FIELDS, TOTAL	35950	4042	6626	11040	2577	11645	18679	4130	2006	4892	4271	375	3005	18149	7975	740

Doctorates by Field																	Field of Master's Degree
SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION	TOTAL ALL FIELDS		
12	69	13	52	11	5	11	2	20	3		82	55	2	323	25372	PHYSICAL SCIENCES, TOTAL	
8	41	2	20	1	2	6	1	7	3		13	8	2	196	3396	MATHEMATICS	
		1	14	4	1	1		8			7	1		26	4312	PHYSICS AND ASTRONOMY	
2		1	6			3	1	2			8	3		59	5369	CHEMISTRY	
1	3		6	4	1			1			5	2		16	1941	EARTH SCIENCES	
1	25	9	6	2	1	1		2			49	41		26	10354	ENGINEERING	
25	87	8	13	1	3	3		2	2		28	6	4	322	14343	BIOLOGICAL SCIENCES, TOTAL	
9	84	3	1			1					5	3		81	4300	AGRICULTURE AND FORESTRY	
14		2	6	1	1			1	2		14	3	3	100	1957	HEALTH SCIENCES BIOCHEM, BIOPHY, PHYSIOLOGY, BIOSTAT	
	1										5		1	9	1898	ANAT, CYTOL, ENTOMOL, GENETIC, MICROBIO, EMBRY	
		1												16	2569		
1															166	ECOLOGY, HYDROBIOLOGY BOTANY, ZOOLOGY BIOLOGY GENERAL	
1	2	2	6		2	2		1			4			116	3453		
1331	2581	1907	284	176	18	29	11	16	19	7	227	149	38	1336	14493	SOCIAL SCIENCES, TOTAL	
37	3	5	27	3	4	1		6	11	1	30	12	14	803	6256	PSYCHOLOGY ANTHROPOLOGY AND ARCHEOLOGY	
10	1	1	11	2		6	3				1		1	6	419		
1156	7	9	10	6		1		2		1	14	1	8	110	1420	SOCIOLOGY ECONOMICS AND ECONOMETRICS POLITICAL SCIENCE & INTERNATIONAL RELATION	
24	2500	42	15	4	5	1		2	1		133	123	2	72	2846		
21	43	1765	99	74	3	9	3	4	4	2	36	9	6	104	2117		
54	37	116	12408	3069	3697	1915	350	791	1372	1151	186	9	112	1516	14620	ARTS AND HUMANITIES, TOTAL	
20	20	66	3041	2961	20	18	7	8	10	13	39	2	25	377	3614	HISTORY ENGLISH AND AMERICAN LANGUAGE AND LITERATURE MODERN FOREIGN LANGUAGE AND LITERATURE CLASSIC LANGUAGES AND LITERATURE	
8	3	13	3895	30	3583	150	6	16	70	15	53	4	19	347	4370		
5	1	9	1768	22	23	1697	11	8	2	3	14	1	6	94	1913		
	2	2	376	15	15	21	310	12	1	2	18		18	35	449		
18	10	21	820	25	23	12	14	736	6	1	49	2	40	65	1079	PHILOSOPHY	
1		1	1258	3	6	2			1232	11	4		2	132	1420	SPEECH AND DRAMATIC ARTS	
2		2	1180	4	10	10	1	4	46	1102	9		2	453	1675	FINE ARTS AND MUSIC	
44	367	71	268	89	40	23	23	46	32	4	2670	1512	579	518	4245	PROFESSIONAL FIELDS, TOTAL	
8	344	17	19	8	3	2		2	4		1513	1501	1	149	2156	BUSINESS ADMINISTRATION	
19	3	5	162	53	14	14	22	41	16	1	580	2	575	153	977	RELIGION AND THEOLOGY	
67	43	46	373	95	69	51	7	17	71	59	111	34	28	13719	15207	EDUCATION	
227	816	467	2065	480	419	526	121	344	61	99	903	104	665	663	22565	NO MASTER-UNK FLD	
1760	4000	2628	15463	3921	4251	2558	514	1236	1560	1320	4207	1869	1428	183971	10845	ALL FIELDS, TOTAL	

APPENDIX G

World Region of Baccalaureate of United States Doctorates From Foreign Countries, by Field,
1920 - 1966 and 1960 - 1966

World Region of Baccalaureate	Year of Doctorate	Doctorates by Field																			
		PHYSICAL SCIENCES AND ENGINEERING	MATHEMATICS	PHYSICS AND ASTRONOMY	Elementary Particles	Solid State	CHEMISTRY	Organic	Physical	EARTH SCIENCES	ENGINEERING	Chemical	Electrical	BIOLOGICAL SCIENCES	AGRICULTURE AND FORESTRY	HEALTH SCIENCES	BIOCHEM, BIOPHYS.	PHYSIOL, BIOSTATIST	ANAT., CYTOL., ENTOMOL.	GENET., MICROBIOL., EMBRYOL.	ECOLOGY, HYDROBIOLOGY
CANADA	1920-66	2090	252	360	21	30	593	95	64	461	424	83	86	1648	503	167	339	389	15	235	
	1960-66	664	81	108	19	27	129	55	34	132	214	36	58	473	151	55	102	117	11		
MEXICO AND CENT. AMERICA	1920-66	80	11	18	3	1	19	10	2	3	29	4	2	137	52	18	22	35		10	
	1960-66	50	6	11	3		9	8	1	2	22	4	2	93	42	17	15	26		3	
SOUTH AMERICA	1920-66	183	34	38	4	7	26	3	12	18	67	9	15	146	37	25	36	37		11	
	1960-66	134	28	27	3	6	19	3	11	8	52	8	13	79	25	5	24	23		2	
NORTHWESTERN & CENT. EUROPE	1920-66	1175	132	202	18	21	298	73	57	79	464	29	83	532	146	85	134	100	3	64	
	1960-66	581	68	81	14	16	126	50	41	46	260	20	48	260	85	36	65	52		20	
UNITED KINGDOM	1920-66	523	71	71	9	3	123	32	30	48	210	20	41	217	61	26	52	42	2	34	
	1960-66	293	37	31	7	3	63	27	21	32	130	16	24	136	43	14	32	31		14	
GERMANY	1920-66	201	25	49	1	9	65	22	11	8	54	2	8	95	23	23	22	19	1	7	
	1960-66	101	16	20		7	33	16		5	26	1	6	41	13	11	8	8		1	
SOUTHERN EUROPE	1920-66	344	31	54	10	6	84	24	15	14	161	12	36	153	40	30	44	30		9	
	1960-66	186	16	23	6	4	48	19	11	5	94	7	23	85	21	9	29	22		4	
FRANCE	1920-66	157	17	27	3	4	31	4	7	75	7	12	34	5	9	13	5		2		
	1960-66	68	6	8	2	3	11	3	4	7	43	3	10	16	5	5	6	4		1	
ITALY	1920-66	45	6	8	2		6	2		4	21		5	23	4	5	6	7		1	
	1960-66	21	5	3			1	1		3	9		3	12	2		6	4			
GREECE	1920-66	105	5	13	5	1	41	17	7	2	44	3	12	69	27	8	17	13		4	
	1960-66	75	4	9			32	14	6	1	29		7	45	17		12	12		2	
EASTERN EUROPE	1920-66	225	26	39	1	10	61	17	17	13	86	9	15	110	31	15	27	19		18	
	1960-66	117	8	21	1	6	35	16	15	6	47	6	11	51	14	5	16	9		7	
AFRICA, EXCL. EGYPT	1920-66	111	18	11	2	2	19	3	4	17	46	3	4	133	54	12	27	26	1	13	
	1960-66	56	9	7	2	2	9	1	2	8	26	1	1	81	33	8	19	15		5	
NEAR EAST	1920-66	898	65	94	9	15	176	45	24	41	522	55	86	663	200	114	111	160	3	75	
	1960-66	578	48	58	9	13	116	37	19	29	327	36	47	385	115	73	69	93		32	
EGYPT	1920-66	317	8	15	2	2	75	21	12	21	198	14	29	391	139	71	45	105	1	30	
	1960-66	191	6	9	2	1	56	18	10	13	107	9	12	200	66	46	19	59		9	
ISRAEL	1920-66	202	27	30	2	5	25	4	5	8	112	19	29	57	8	4	19	18		8	
	1960-66	147	21	16	2	5	14	3	3	8	88	16	16	45	6	3	18	13		5	
TURKEY	1920-66	125	3	12	1	2	8	3	1	1	101	7	14	33	8	8	6	4		7	
	1960-66	74		7			5	3			61	3	8	15	5	5	3			2	
OTHER NR. EAST	1920-66	254	27	37	4	5	68	17	6	11	111	15	14	182	45	31	41	33	2	30	
	1960-66	166	21	26	4	5	41	13	5	7	71	8	11	125	38	19	29	21		16	
INDIA	1920-66	1477	169	254	32	53	382	111	62	63	609	97	105	1210	381	163	221	263	3	179	
	1960-66	1054	136	183	28	47	268	94	52	39	428	63	85	742	235	89	159	169		88	
PAKISTAN	1920-66	97	10	15	2	2	32	5	4	7	33	2	5	176	66	17	26	47	2	18	
	1960-66	56	7	11	1	2	15	4	3	4	19	2	3	104	32	12	15	30		13	
CHINA, NATIONALIST	1920-66	1680	112	195	19	26	365	88	70	51	957	137	149	599	125	70	184	112	4	104	
	1960-66	805	57	91	19	25	159	58	58	20	478	74	97	216	45	17	99	37		17	
JAPAN	1920-66	314	30	79	12	10	91	27	27	18	96	9	23	119	16	13	28	38		24	
	1960-66	214	22	56	10	10	64	22	19	6	66	6	17	78	11	8	18	25		16	
KOREA	1920-66	180	17	45	10	9	53	10	21	3	62	25	11	85	12	22	27	16		8	
	1960-66	159	13	43	10	9	47	10	17	3	53	24	7	61	10	10	23	12		6	
OTHER S.E. ASIA AND INDONESIA	1920-66	128	13	15	2	2	43	13	12	9	48	2	9	134	23	34	25	27	3	22	
	1960-66	97	10	14	2	2	36	11	12	6	31	2	4	92	19	17	21	15		17	
AUSTRALIA AND NEW ZEALAND	1920-66	198	28	19	2	1	45	6	9	44	62	5	8	210	80	14	45	42	1	28	
	1960-66	119	20	10	2	1	24	5	7	24	41	3	7	120	48	6	25	25		15	
PHILIPPINES	1920-66	125	16	6			46	6	8	11	46	11	2	175	56	21	33	26	4	35	
	1960-66	75	8	2			27	6	6	6	32	10	2	90	34	5	24	9		14	
TOTAL FOREIGN	1920-66	9305	964	1444	147	195	2333	536	408	852	3712	492	639	6230	1822	820	1329	1367	39	853	
	1960-66	4945	537	746	129	170	1128	399	308	344	2190	302	425	3010	920	362	723	679	30	296	

Doctorates by Field																		World Region of Baccalaureate	
SOCIAL SCIENCES	PSYCHOLOGY	ANTHROPOL AND ARCHEOL	SOCIOLOGY	ECON AND ECONOMETRICS	POLIT SCI, INT RELAT	ARTS AND HUMANITIES	HISTORY	ENG AND AMER LANG AND LIT	MOD FOREIGN LANG AND LIT	CLASSIC LANG AND LIT	PHILOSOPHY	SPEECH AND DRAMATIC ARTS	FINE ARTS AND MUSIC	PROFESSIONAL FIELDS	BUSINESS ADMINISTRATION	RELIGION AND THEOLOGY	EDUCATION		TOTAL ALL FIELDS
877 335	259 117	29 17	92 27	370 111	67 32	772 215	168 47	184 47	182 50	96 20	74 22	16 9	28 15	234 94	64 22	110 25	441 170	6062 1955	CANADA
38 29	5 5	7 4	6 4	16 13	3 1	37 17	7 4	1 1	27 11		1 1		1 7	7 4	1 1	2 1	12 7	311 200	MEXICO AND CENT. AMERICA
61 37	8 6	7 3	12 6	25 18	4 1	45 22	2 2	3 3	31 14	1 1	6 1	1 1	8 4	2 2	3 1	13 6	456 282	SOUTH AMERICA	
549 264	111 50	19 11	56 27	210 107	98 38	572 233	106 38	86 44	245 95	35 17	43 12	8 7	38 18	151 70	30 21	62 23	108 51	3087 1459	NORTHWESTERN & CENT. EUROPE
248 134	40 21	11 6	24 12	97 55	38 16	265 117	82 31	65 35	54 25	24 10	18 6	5 4	11 5	70 36	15 13	24 6	68 36	1391 752	UNITED KINGDOM
113 51	31 15	3 1	8 4	46 23	22 8	160 68	10 4	10 4	112 48	5 4	12 2	1 1	9 5	30 13	3 3	18 8	17 6	616 280	GERMANY
129 67	21 11	9 4	20 10	51 29	24 10	296 117	25 7	8 6	210 83	21 8	20 8		8 4	57 28	11 11	28 11	29 10	1008 493	SOUTHERN EUROPE
47 18	7 2	4 2	4 10	18 10	13 4	163 54	11 3	1 4	133 45	5 1	5 1		5 3	15 5	4 4	3 1	8 4	424 165	FRANCE
29 17	6 5	1 1	9 5	9 3	2 2	67 32	11 3	3 2	33 19	5 2	12 5		2 1	22 12	3 3	16 7	5 1	191 95	ITALY
34 21	4 2	1 1	4 3	18 12	6 2	20 11	1 1	4 4	3 3	10 4			1 5	12 5	2 2	5 1	13 4	253 161	GREECE
123 49	7 4	4 5	11 5	42 17	51 19	140 64	32 18	3 3	69 30	12 6	11 1	1 1	10 5	40 11	6 3	17 2	26 8	664 300	EASTERN EUROPE
49 26	11 5	5 4	4 2	15 6	8 6	13 9	1 1	4 4	5 3	2 2		1 1		10 5	3 1	6 3	39 23	355 200	AFRICA, EXCL. EGYPT
442 241	54 27	13 6	51 27	175 91	111 58	136 70	39 17	18 9	44 25	11 9	19 5		4 4	132 87	67 46	15 8	236 131	2507 1492	NEAR EAST
161 91	13 10	4 2	21 9	69 38	32 21	25 16	5 3	5 2	13 10		1 1		1 1	77 55	49 34		118 70	1089 623	EGYPT
77 56	26 19	2 2	2 2	36 26	3 3	38 26	10 6	3 1	11 8	9 7	4 3			23 15	7 7	11 6	19 8	416 297	ISRAEL
31 10	5 4	4 2	5 1	9 1	8 7	18 7	4 3	3 2	5 2		3 3		3 3	10 6	3 1	3 1	12 8	229 170	TURKEY
173 84	10 4	3 2	22 14	61 26	65 31	55 21	20 8	7 4	15 5	2 2	11 2			22 11	8 4	1 1	87 45	773 452	OTHER NR. EAST
425 267	51 30	15 7	47 29	194 130	76 44	99 66	17 12	38 29	21 14	3 1	16 7	2 2		97 49	28 21	14 10	193 101	3501 2279	INDIA
86 61	12 8	1 1	5 5	39 29	15 12	12 9	2 2	5 2	2 2		2 2		1 1	12 6	6 2	2 2	49 38	432 274	PAKISTAN
365 96	33 11	3 1	31 13	158 54	124 24	114 32	41 13	17 9	25 10	1 1	21 3	1 1	5 1	99 13	34 6	14 29	2984 1191	CHINA, NATIONALIST	
89 54	17 13	2 1	10 1	44 28	12 7	48 37	5 4	6 4	21 20	4 2	6 3	2 1	4 3	28 16	3 3	13 7	30 19	628 418	JAPAN
60 53	2 2		7 5	18 17	31 27	11 7	4 4	1 2	2 2		3 1		1 1	24 18	5 5	10 5	17 10	377 308	KOREA
93 61	7 4	1 1	9 4	34 27	36 14	19 14	5 3	2 2	9 7		2 1			17 8	10 5	3 1	62 35	453 307	OTHER S.E. ASIA AND INDONESIA
110 58	34 15	7 4	3 2	40 23	11 6	44 25	11 8	12 5	8 6	5 3	5 1	3 2		36 19	6 4	18 11	79 40	677 381	AUSTRALIA AND NEW ZEALAND
88 47	16 6	2 2	10 6	29 19	26 12	47 30	10 6	13 10	7 5		11 4	2 2	2 2	47 24	7 5	8 4	160 80	642 346	PHILIPPINES
3584 1745	648 324	124 67	374 163	1460 719	697 321	2405 967	475 186	401 174	908 377	191 67	240 68	37 27	104 54	999 460	283 178	325 102	1621 758	24144 11885	TOTAL FOREIGN

Note to Appendix G: The countries included in the regions of postdoctoral job and foreign baccalaureate institution are listed below:

**WORLD REGION OF POSTDOCTORAL JOB
(10 REGIONS)**

1. NORTH AND CENTRAL AMERICA
Canada, Mexico, other countries of Central America, Islands
2. SOUTH AMERICA
3. NORTHERN EUROPE
United Kingdom, Finland, Iceland, Norway, Sweden, Denmark
4. CENTRAL EUROPE
Austria, Germany, Italy, Malta
5. WESTERN EUROPE
Belgium, France, Netherlands, Portugal, Spain, Switzerland, Luxembourg
6. EASTERN EUROPE
Bulgaria, Czechoslovakia, Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Rumania, Ukraine, USSR, Yugoslavia
7. ASIA, WESTERN
Afghanistan, Cyprus, India, Iran, Iraq, Israel, Jordan, Lebanon, Nepal, Palestine, Saudi Arabia, Turkey, Syria, Pakistan
8. ASIA, EASTERN
Burma, Cambodia, Ceylon, China, Indo-China, Japan, Korea, Malaya and Singapore, North Borneo, Okinawa, Ryukyu Islands, South Vietnam, Thailand, Hong Kong, Manchuria
9. AUSTRALASIA
Australia, Borneo, Guam, Indonesia, New Zealand, Philippine Islands, Samoa, Territory of New Guinea
10. AFRICA, INCLUDING EGYPT

**WORLD REGION OF BACCALAUREATE
INSTITUTION (16 REGIONS)**

1. CANADA
2. MEXICO AND CENTRAL AMERICA
3. SOUTH AMERICA
4. NORTHWESTERN AND CENTRAL EUROPE
Includes countries listed for Northern, Central, and Western Europe except Finland, Italy, Malta, France, Spain, Portugal
5. SOUTHERN EUROPE
Malta, Italy, France, Spain, Portugal, Greece
6. EASTERN EUROPE
Includes countries listed for Western Asia except Greece, and includes Finland
7. NEAR EAST
Includes countries listed for Western Asia except India, Pakistan, and includes Egypt
8. INDIA
9. PAKISTAN
10. CHINA
11. JAPAN
12. KOREA
13. OTHER SOUTHEAST ASIAN COUNTRIES AND INDONESIA
Includes countries listed for Eastern Asia and Australasia except China, Japan, Korea, Australia, New Zealand, Philippines
14. AUSTRALIA AND NEW ZEALAND
15. PHILIPPINE ISLANDS
16. AFRICA, EXCLUDING EGYPT

APPENDIX H

SURVEY OF EARNED DOCTORATES

AWARDED IN

THE UNITED STATES

SPONSORED AND CONDUCTED BY

THE GRADUATE DEANS.
THE NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL.
THE U.S. OFFICE OF EDUCATION AND THE NATIONAL SCIENCE FOUNDATION

IN COOPERATION WITH

THE AMERICAN COUNCIL OF LEARNED SOCIETIES
AND THE SOCIAL SCIENCE RESEARCH COUNCIL

TO BE RETURNED TO
THE GRADUATE DEAN FOR
FORWARDING TO

DIRECTOR OF RESEARCH
OFFICE OF SCIENTIFIC PERSONNEL
NATIONAL RESEARCH COUNCIL
2101 CONSTITUTION AVE., N.W.
WASHINGTON, D.C. 20418

SPECIALTIES LIST

FOR USE WITH ITEMS M AND N OF THE QUESTIONNAIRE FOR THE
SURVEY OF EARNED DOCTORATES

Mathematics

- 000—Algebra
- 010—Analysis
- 020—Geometry
- 030—Logic
- 040—Number Theory
- 050—Probability, Math Stat.
(see also 544, 670, 725, 920)
- 060—Topology
- 070—Topol. Algebraic Structures
- 080—Computing Theory & Practice
- 085—Applied Mathematics
- 098—Mathematics, General
- 099—Mathematics, Other
(note also 984: Math Educ.)

Physics and Astronomy

(Note: Theoretical scientists mark "T"
on questionnaire following code No.)

- 100—Astronomy
- 110—Atomic & Molec. Physics
- 120—Electricity & Magnetism
- 130—Mechanics
- 132—Acoustics
- 134—Fluids
- 136—Optics
- 138—Thermal Phenomena
- 140—Elementary Particles
- 150—Nuclear Structure
- 160—Solid State
- 198—Physics, General
- 199—Physics, Other

Chemistry

- 200—Analytical
- 210—Inorganic
- 220—Organic
- 230—Nuclear
- 240—Physical
- 250—Theoretical
- 260—Agricultural & Food
- 270—Pharmaceutical
- 298—Chemistry, General
- 299—Chemistry, Other
(see also Biochemistry, 540)

Earth Sciences

- 300—Mineralogy, Petrology,
Geochemistry
- 310—Stratig.-sedimentation
- 320—Paleontology
- 330—Structural Geology
- 340—Solid Earth Geophysics
- 350—Geomorph., Glacial Geology
- 360—Hydrology
- 370—Oceanography
- 380—Meteorology
- 390—Applied Geol.: Geol. Engr.;
Econ. Geol.; Petroleum Geol.
- 398—Earth Sciences, General
- 399—Earth Sciences, Other

**Fields Not Elsewhere
Classified**

- 899—Sci., General; Sci., Other;
Other General Field

Engineering

- 400—Aeronautical
- 410—Agricultural
- 420—Civil
- 430—Chemical
- 435—Ceramic
- 440—Electrical
- 445—Electronics
- 450—Industrial
- 460—Engineering Mechanics
- 465—Engineering Physics
- 470—Mechanical
- 475—Metallurgy & Met. Engineering
- 480—Sanitary
- 485—Textile
- 498—Engineering, General
- 499—Engineering, Other

Agricultural Sciences

- 500—Agronomy
- 502—Animal Husbandry
- 504—Fish & Wildlife
- 505—Forestry
- 506—Horticulture
- 508—Agriculture, General
- 509—Agriculture, Other

Medical Sciences

- 510—Medicine & Surgery
- 511—Pharmacy
- 512—Public Health
- 513—Veterinary Medicine
- 514—Hospital Administration
- 518—Medical Sciences, General
- 519—Medical Sciences, Other

Biological Sciences

- 520—Anatomy
- 522—Cytology
- 524—Embryology
- 530—Physiology, Animal
- 532—Physiology, Plant
- 534—Pathology
- 536—Pharmacology
- 540—Biochemistry
- 542—Biophysics
- 544—Biometrics, Biostatistics
(see also 050, 670, 725, 920)
- 550—Botany
- 552—Phytopathology
- 560—Ecology
- 582—Entomology
- 570—Genetics
- 562—Hydrobiology
- 564—Microbiology
- 580—Zoology
- 598—Bio-Science, General
- 599—Bio-Science, Other

Psychology

- 600—Clinical
- 610—Counseling & Guidance
- 620—Developmental Gerontological
- 630—Educational
- 641—Experimental
- 642—Comparative
- 643—Physiological
- 650—Industrial & Personnel
- 660—Personality
- 670—Psychometrics
(see also 050, 544, 920)
- 635—School Psychology
- 680—Social
- 698—Psychology, General
- 699—Psychology, Other

Social Sciences

- 700—Anthropology
- 705—Archeology
- 745—Area Studies (specify area)
- 720—Economics
- 725—Econometrics & Statistics
(see also 050, 544, 670, 920)
- 730—History
- 740—Geography
- 755—International Relations
- 750—Political Science, Public Admin.
- 760—Social Work
- 710—Sociology
- 798—Social Sciences, General
- 799—Social Sciences, Other

Arts & Humanities

- 800—Art, Fine & Applied (incl. hist.
& crit.)
- 810—English Language & Lit. (incl.
Amer.)
- 820—Foreign Lang. & Lit. Modern
(specify)
- 822—Foreign Lang. & Lit. Classical
(specify)
- 825—Linguistics
- 830—Music
- 840—Philosophy
- 815—Speech & Dramatic Arts
- 888—Arts & Humanities, General
- 889—Arts & Humanities, Other

Prof. Fields Not Listed Above

- 850—Business Administration
- 855—Home Economics
- 860—Journalism
- 865—Law, Jurisprudence
- 870—Library & Archival Science
- 880—Religion & Theology

Education

Note: For fields 900-947 and 960-967
final digit indicates level: 0—unspeci-
fied; 1—preschool; 2—elem.; 3—second-
ary; 4—teacher training; 5—higher
educ.; 6—adult educ.; 7—other.

- 900—Foundations: Social, Philosoph.
- 908—Elem. Educ., General
- 909—Secondary Educ., General
- 910—Educational Psychology
- 920—Educ. Meas. & Stat.
- 930—Educ. Admin. & Superv.
- 940—Guid., Couns., Student Pers.
- 950-959—Special Education
- 950—Field Unspecified
- 952—Gifted
- 954—Speech
- 956—Phys. Handicapped
- 958—Emot. & Ment. Handicapped
- 960—Audio-Visual Media
- Note: For fields 970-997, and 952-959
even number is for secondary level;
next odd number indicates other than
secondary level.
- 970—Agric.
- 972—Art
- 974—Business
- 976—English
- 978—Foreign L.
- 980—Home Ec.
- 982—Ind. Arts
- 984—Math
- 986—Music
- 988—Phys. Ed., Health
& Recreation
- 990—Science Educ.
- 992—Social Sci. Educ.
- 994—Vocational Educ.
- 996—Other Special
Field
- 998—Educ., General
- 999—Educ., Other

TO THE DOCTORAL CANDIDATE

Who Wants This Information, and Why?

Educators, employers, the scientific and professional community, and the nation generally are vitally interested in accurate up-to-date information on all doctorate holders. Aspects of this interest include the number graduating in each of the various fields, rate of increase, where these scholars come from, their routes to the doctoral degree, and employment plans made prior to graduation.

The interest of the graduate schools is evidenced by the cooperation of all the Graduate Deans of the United States and Territories in distributing these questionnaires to you and other doctoral candidates, collecting and forwarding them, and receiving reports on the data. The National Academy of Sciences-National Research Council has been conducting and publishing studies of doctorate holders from 1936 to the present time, emphasizing their schools of undergraduate origin as well as other data concerning them. The National Science Foundation maintains for the Federal Government the National Register of Scientific and Technical Personnel. This Survey of Earned Doctorates includes all fields in which doctorates are currently conferred: not only the natural sciences and engineering, but also the arts, languages, social sciences, etc.

Among the goals of the questionnaire is the gathering of information on persons who attain high levels of academic achievement, including data on the background factors which may be related to this success. By providing this information, you make possible improvements in policies and programs of advanced training. Also, information concerning your professional development and utilization of your training will become increasingly important when it is collected and analyzed.

What Information is Wanted, Now and Later?

The information wanted on the questionnaire to the left is largely self-explanatory. Please detach it along the perforated line, complete it, and return it to your Graduate Dean. On the back of this sheet is a Specialties List with code numbers and titles for classifying the field of your dissertation, to be used only with Items M and N of the questionnaire. If none of the detailed fields listed seems to be appropriate, note the "General" and "Other" categories. If you use a category which states parenthetically to "specify," please include the essential details in the right-hand column of Item N.

Those of you who are in the fields of natural science or engineering and certain related areas may expect to receive a questionnaire from one of the participating professional societies in the NSF's National Register of Scientific and Technical Personnel, including: the American Chemical Society, American Geological Institute, American Institute of Biological Sciences, American Institute of Physics, American Mathematical Society, American Meteorological Society, American Psychological Association, Engineers Joint Council, Federation of American Societies for Experimental Biology. One of its major purposes will be to obtain further information about your postdoctoral employment and areas of specialization.

For all doctorate holders, your cooperation in completing this questionnaire will be of great value within your particular discipline and to the scientific and scholarly community generally.